

# Jae Young Bang, PhD

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## Software Technology Expert & CEO

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## Education

University of Southern California:..... Los Angeles, CA, USA  
5/2015 **Doctor of Philosophy** in Computer Science (Software Engineering)  
5/2010 **Master of Science** in Computer Science  
Soongsil University: ..... Seoul, Republic of Korea  
6/2008 **Bachelor of Engineering** in Computer Science

## Work History

Cyberonix Experts, LLC: ..... El Segundo, CA, USA  
6/2025 – present **Software Technology Expert & CEO:** Lead Cyberonix, a software expert consulting firm. Deliver expert witness services in high-stakes IP disputes, translating complex software systems into clear, defensible technical opinions through source code analysis, reverse engineering, and system evaluation. Serve as a trusted advisor to executives on software engineering practices, system architecture, and AI-assisted development. Lead technical due diligence for investments and M&A.

University of Southern California: ..... Los Angeles, CA, USA  
1/2024 – present **Adjunct Faculty:** Teach the graduate-level *Software Architectures* (CSCI-578) and *Software Engineering* (CSCI-577a) classes, Thomas Lord Department of Computer Science, Viterbi School of Engineering.

Quandary Peak Research: ..... Los Angeles, CA, USA  
9/2022 – 4/2025 **Director of Software Development:** Led internal software research and development to advance technologies in source code analysis, quality evaluation, reverse engineering, cost estimation, and failure analysis.

3/2019 – 4/2025 **Senior Computer Scientist:** Served as a testifying expert in software IP litigation, including patent and copyright infringement, trademark misappropriation, and breach of contract. Advised on technical due diligence for startup investments and M&A.

University of California, Irvine: ..... Irvine, CA, USA  
1/2022 – 4/2022 **Adjunct Faculty:** Taught *Software Design: Structure and Implementation*, Department of Informatics, Donald Bren School of Information and Computer Sciences.

Kakao Corporation: ..... Seoul Capital Area, Republic of Korea  
 6/2015 – 2/2019 **Software Engineer:** Developed and scaled the user identity platform supporting 100M+ users across Kakao services, including KakaoTalk.

University of Southern California: ..... Los Angeles, CA, USA  
 5/2009 – 5/2015 **Research Assistant:** Led research in collaborative software design, with a focus on distributed system reliability and Android data security.

1/2014 – 12/2014 **Teaching Assistant** (USC CSCI-578: Software Architectures)

Infosys Limited: ..... Bangalore, Karnataka, India  
 6/2012 – 8/2012 **Graduate Research Intern:** Conducted a large-scale empirical study on collaborative software design as part of Infosys Labs.

## Software Consulting Experience

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### Executive Technology Advising Experience

Soaring Aerospace Inc. .... 2/2026 – present  
 Nature: Advise on software engineering practices  
 Technologies: Avionics software (drones)

Surlamer LLC ..... 7/2025 – present  
 Nature: Advise on software product development and engineering strategy  
 Technologies: Financial software (fintech)

### Software Litigation Consulting Cases: Active Cases<sup>1</sup>

Avatier IP, LLC v. Microsoft Corporation ..... 3/2026 – present  
 Jurisdiction: District Court, Central District of California  
 Case No.: 2:25-cv-3640  
 Counsel: Daignault Iyer LLP  
 Nature of Suit: Patent

Amadeus North America, Inc. and Amadeus IT Group, SA v. Optym, Inc. f/k/a Innovative Scheduling, LLC, et al. ..... 3/2026 – present  
 Jurisdiction: Business Court of Texas First Division  
 Case No.: 26-BC0IB-0004  
 Counsel: Troutman Pepper Locke  
 Nature of suit: Trade Secret

Zorn v. Mayfield, Cody and Hudlin; Meyer and Hoch Publishing Co., Inc. v. City of Marion, Kansas, Mayfield, Cody and Hudlin; Herbel v. City of Marion, Kansas, Cody and Hudlin ..... 2/2026 – present  
 Jurisdiction: District Court, District of Kansas  
 Case No.: 24-2044-DDC-GEB, 24-2122-DDC-GEB, 24-02224-HLT-GEB  
 Counsel: McDonald Tinker PA

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<sup>1</sup> I was retained by the underlined party.

Nature of suit: Civil Rights

Jackson v. LinkedIn Corporation ..... 9/2025 – present

Case No.: 5:24-cv-00812 (District Court, Northern District of California)

Case No.: 25CV457271 (Superior Court of California, County of Santa Clara)

Counsel: Baron and Budd, P.C.

Nature of suit: Class Action

VinLogx LLC v. Accu-Trade LLC ..... 9/2025 – present

Jurisdiction: Court of Chancery of the State of Delaware

Case No.: 2024-1236-MTZ

Counsel: Gordon Rees Scully Mansukhani, LLP

Nature of suit: Breach of Contract

In Re GEICO Customer Data Breach Litigation ..... 9/2025 – present

Retaining Party: GEICO

Jurisdiction: District Court, Eastern District of New York

Case No.: 1:21-cv-02210-KAM-SJB

Counsel: Rivkin Radler LLP

Nature of suit: Class Action

Entangled Media, LLC v. Dropbox, Inc. ..... 1/2024 – present

Jurisdiction: District Court, Northern District of California

Case No.: 5:23-cv-03264

Counsel: Skiermont Derby, LLP

Nature of Suit: Patent

**Software Litigation Consulting Cases: Past Cases<sup>2</sup>**

MyPort Technologies, Inc. v. Apple, Inc. ..... 9/2025 – 3/2026

Jurisdiction: District Court, District of Delaware

Case No.: 1:24-cv-01337

Counsel: Skiermont Derby, LLP

Nature of suit: Patent

Note-e-fied v. Newton Isaac; Carebeyond; Michael Raiz; Marvin Javellana; Charles Sam Smith; and Final Solution Inc. ..... 6/2025 – 2/2026

Retaining Party: Jointly retained by both parties pursuant to court appointment

Jurisdiction: Superior Court of California, County of Los Angeles

Case No.: 21STCV03392

Counsel: Miller Law Office, PC (Plaintiff) and Yassin Law, APC (Defendant)

Nature of suit: Trade Secret, Breach of Duty, Fraud

Testimony: Report (Jul 21, 2025)

Courtney Cole et al. v. LinkedIn Corporation ..... 5/2025 – 1/2026

Jurisdiction: District Court, Northern District of California

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<sup>2</sup> I was retained by the underlined party.

Case No.: 5:25-cv-01097  
Counsel: Arisohn LLC  
Nature of suit: Class Action  
Testimony: Declaration (May 20, 2025)

FlexShopper, Inc. v. Upbound Group, Inc. ..... 7/2025 – 12/2025  
Jurisdiction: District Court, Eastern District of Texas  
Case No.: 2:24-cv-00794  
Counsel: Sullivan & Cromwell LLP  
Nature of suit: Patent

Austin Recht et al. v. TikTok Inc. (f/k/a Musical.ly, Inc.); ByteDance Inc.; Beijing Douyin Information Service Co. Ltd. a/k/a ByteDance Technology Co. Ltd.; and Douyin Ltd. a/k/a ByteDance Ltd. ..... 5/2025 – 11/2025  
Jurisdiction: District Court, Northern District of Illinois  
Case No.: 1:24-cv-02110  
Counsel: Baron and Budd, P.C.  
Nature of suit: Class Action

Matter of Position Mobile Ltd SEZC ..... 5/2025 – 11/2025  
Retaining Party: Technology Investment Consortium, LLC  
Jurisdiction: Grand Court of the Cayman Islands  
Case No.: FSD 79 OF 2022 (DDJ)  
Counsel: Dinner Martin Attorneys t/a Dentons  
Nature of suit: Breach of Contract; Intellectual Property – Trade Secret

System Software Technologies, LLC v. Resource Acquisition & Management Services, Inc. ..... 8/2025 – 11/2025  
Jurisdiction: The 13th Judicial Circuit Courts, Hillsborough County, Florida  
Case No.: 24-CA-010290  
Counsel: Rocke, McLean & Sbar, P.A.  
Nature of suit: Breach of Contract

Weisner v. Google LLC ..... 8/2025 – 8/2025  
Jurisdiction: District Court, Southern District of New York  
Case No.: 1:23-cv-08186 and 1:20-cv-02862  
Counsel: Valhalla Legal, PLLC  
Nature of suit: Patent

Michael Gonzales v. Charter Communications, LLC ..... 6/2025 – 6/2025  
Jurisdiction: District Court, Central District of California  
Counsel: Ferguson Case Orr Paterson LLP  
Nature of suit: Labor: Fair Standards

Algebraix LLC v. International Business Machines Corporation (IBM) .... 3/2025 – 4/2025  
Jurisdiction: District Court, Eastern District of Texas  
Counsel: Nelson Bumgardner Conroy PC

Nature of Suit: Patent  
Confidential (Pre-Litigation) ..... 2/2025 – 4/2025  
Nature of Suit: Patent  
Via Transportation, Inc. v. RideCo Inc. ..... 6/2022 – 2/2025  
Jurisdiction: District Court, Western District of Texas  
Counsel: Wilson Sonsini Goodrich & Rosati  
Nature of Suit: Patent  
InQuisient Inc. v. ServiceNow, Inc. ..... 2/2024 – 11/2024  
Jurisdiction: District Court, District of Delaware  
Counsel: Fish & Richardson P.C.  
Nature of Suit: Patent  
Nations Info Corp. v. Rink ..... 1/2023 – 9/2024  
Jurisdiction: American Arbitration Association  
Counsel: The Law Offices of Robert M. Moss, Inc.  
Nature of Suit: Breach of Contract  
Smart Mobile Technologies, LLC v.  
    Samsung Electronics Co. Ltd. et al. ..... 10/2023 – 6/2024  
Jurisdiction: District Court, Western District of Texas  
Counsel: Graves & Shaw LLP  
Nature of Suit: Patent  
IPA Technologies, Inc. v. Microsoft Corp. ..... 10/2022 – 5/2024  
Jurisdiction: District Court, District of Delaware  
Counsel: Skiermont Derby, LLP  
Nature of Suit: Patent  
AGI SureTrack, LLC v. Farmers Edge Inc. et al. ..... 4/2022 – 4/2024  
Jurisdiction: District Court, Eastern District of Texas  
Counsel: Irell & Manella LLP  
Nature of Suit: Patent  
MyPort, Inc. v. Samsung Electronics Co., Ltd. et al. ..... 9/2022 – 2/2024  
Jurisdiction: District Court, Eastern District of Texas  
Counsel: Skiermont Derby, LLP  
Nature of Suit: Patent  
Testimony: IPR Declaration (Jul 17, 2023), IPR Deposition (Sep 28, 2023),  
Expert Report (Oct 13, 2023), Deposition (Oct 17, 2023)  
Polaris PowerLED Technologies, LLC v.  
    Samsung Electronics America, Inc. et al. ..... 9/2023 – 11/2023  
Jurisdiction: District Court, Eastern District of Texas  
Counsel: Kramer Alberti Lim & Tonkovich LLP  
Nature of Suit: Patent

Farmobile, LLC v. Farmers Edge Inc. ..... 4/2019 – 9/2023  
 Jurisdiction: Federal Court of Canada  
 Counsel: Gowling WLG (Canada) LLP  
 Nature of Suit: Patent  
 Testimony: Affidavit (Nov 5, 2021), Deposition (Nov 23, 2021)

Mendoza v. WP Company LLC ..... 4/2023 – 5/2023  
 Jurisdiction: District Court, District of Columbia  
 Counsel: Edelsberg Law  
 Nature of Suit: Class Action

Barber v. Eisenhower Medical Center, Inc. ..... 4/2023 – 5/2023  
 Jurisdiction: Central District of California  
 Counsel: Edelsberg Law  
 Nature of Suit: Class Action

Waller v. Times Publishing Company ..... 4/2023 – 5/2023  
 Jurisdiction: Middle District of Florida  
 Counsel: Edelsberg Law  
 Nature of Suit: Class Action

Broadband iTV, Inc. v. Charter Communications, LLC ..... 4/2022 – 10/2022  
 Jurisdiction: International Trade Commission (ITC)  
 Counsel: Feinberg Day Kramer Alberti Lim Tonkovich & Belloli LLP  
 Nature of Suit: Patent

Zeta Global Corp. v. Maropost Marketing Cloud, Inc. ..... 4/2022 – 1/2023  
 Jurisdiction: District Court, Southern District of New York  
 Counsel: Newman Du Wors Durrance  
 Nature of Suit: Patent  
 Testimony: Declaration (Jan 19, 2023)

Allscripts Healthcare, LLC v. Andor Health, LLC ..... 4/2022 – 8/2022  
 Jurisdiction: District of Delaware  
 Counsel: Locke Lord LLP  
 Nature of Suit: Breach of Contract

Express Mobile, Inc. v. Meta Platforms, Inc. ..... 4/2021 – 3/2022  
 Jurisdiction: Northern District of California  
 Counsel: Kramer Day Alberti Lim Tonkovich & Belloli, LLP  
 Nature of Suit: Patent

Express Mobile, Inc. v. eBay Inc. ..... 4/2021 – 3/2022

Express Mobile, Inc. v. Salesforce.com, Inc. ..... 4/2021 – 3/2022

Express Mobile, Inc. v. Slack Technologies, Inc. ..... 4/2021 – 3/2022  
 Jurisdiction: Western District of Texas  
 Counsel: Feinberg Day Kramer Alberti Lim Tonkovich & Belloli LLP  
 Nature of Suit: Patent



## Teaching Experience

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Software Engineering (CSCI-577a), USC .....	Spring 2026
Software Architectures (CSCI-578), USC .....	Fall 2025
Software Engineering (CSCI-577a), USC .....	Spring 2025
Software Architectures (CSCI-578), USC .....	Fall 2024
Software Architectures (CSCI-578), USC .....	Spring 2024
Software Design: Structure and Implementation (INF 122), UC Irvine .....	Winter 2022

## Media Mentions

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“Samsung Co-CEO Han Jong-hee Dies of Heart Attack at 63,” CNET ..... March 25, 2025

## Patents

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1. US Patent 10,827,349, SEALANT: Security for End-Users of Android via Light-Weight Analysis Techniques, granted on November 3, 2020.
  2. US Patent Application US-2012-0089960-A1, Extensible Collaborative Software Modeling, published on April 14, 2012.

## Publications

### Journal Papers

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1. Dohyun Kim, Soohyun Park, Joongheon Kim, Jae Young Bang, and Soyi Jung. “Stabilized Adaptive Sampling Control for Reliable Real-Time Learning-based Surveillance Systems.” *IEEE/KICS Journal of Communications and Networks*. 23(2):128-136, April 2021.
  2. Jae Young Bang, Yuriy Brun, and Nenad Medvidovic. “Collaborative Design Conflicts: Costs and Solutions.” *IEEE Software*, vol. 35, no. 6, November/December 2018, pp. 25-31.
  3. Yuriy Brun, Jae Young Bang, George Edwards, and Nenad Medvidovic. “Self-Adapting Reliability in Distributed Software Systems.” *IEEE Transactions on Software Engineering (TSE)*, 2015.

### Conference Papers

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1. Jae Young Bang, Yuriy Brun, and Nenad Medvidovic. “Continuous Analysis of Collaborative Design.” *In proceedings of the IEEE International Conference on Software Architecture (ICSA17)*, Gothenburg, Sweden, April 2017. **Best Paper Award**.
  2. Youn Kyu Lee, Jae Young Bang, Gholamreza Safi, Arman Shahbazian, Yixue Zhao, and Nenad Medvidovic. “A SEALANT for Inter-App Security Holes in Android.” *In proceedings of the 39th International Conference on Software Engineering (ICSE17)*, Buenos Aires, Argentina, May 2017.

3. Jae Young Bang and Nenad Medvidovic. "Proactive Conflict Detection of Higher-Order Software Design Conflicts." *In proceedings of the 12th Working IEEE/IFIP Conference on Software Architecture (WICSA15)*, Montreal, Quebec, Canada, May 2015.
4. Youn Kyu Lee, Jae Young Bang, Joshua Garcia, and Nenad Medvidovic. "ViVA: A Visualization and Analysis Tool for Distributed Event-Based Systems." *In proceedings of the 36th International Conference on Software Engineering (ICSE14)*, Hyderabad, India, May 2014.
5. Yuriy Brun, George Edwards, Jae Young Bang, and Nenad Medvidovic. "Smart Redundancy for Distributed Computation." *In proceedings of the 31st International Conference on Distributed Computing Systems (ICDCS11)*, Minneapolis, Minnesota, USA, June 2011.
6. Jae Young Bang, Daniel Popescu, George Edwards, Nenad Medvidovic, Naveen Kulkarni, Girish M. Rama, and Srinivas Padmanabhuni. "CoDesign – A Highly Extensible Collaborative Software Modeling Framework." *In proceedings of the 32nd International Conference on Software Engineering (ICSE10)*, Cape Town, South Africa, May 2010.

### **Workshop Papers**

1. Dohyeon Kim, Joongheon Kim, and Jae Young Bang. "A Reliable, Self-Adaptive Face Identification Framework via Lyapunov Optimization." *In Proceedings of the Workshop on AI Systems at Symposium on Operating Systems Principles (AISys17)*, Shanghai, China, October 2017.
2. Jae Young Bang, Ivo Krka, Nenad Medvidovic, Naveen Kulkarni, and Srinivas Padmanabhuni. "How Software Architects Collaborate: Insights from Collaborative Software Design in Practice." *In proceedings of the 6th International Workshop on Cooperative and Human Aspects of Software Engineering at International Conference on Software Engineering (CHASE13)*, San Francisco, California, USA, May 2013.
3. Jae Young Bang, Daniel Popescu, and Nenad Medvidovic. "Enabling Workspace Awareness for Collaborative Modeling." *Presented at the Future of Collaborative Software Development at Computer Supported Cooperative Work (FutureCSD12)*, Seattle, Washington, USA, February 2012.

### **Non-refereed Publications**

1. Youn Kyu Lee, Ruhollah Shemirani, Jae Young Bang, Arman Shahbazian, Gholamreza Safi, and Nenad Medvidovic. "SEALANT: Preventing Inter-Application Attacks in Android." *Technical Report USC-CSSE-16-601*, Center for Systems and Software Engineering, University of Southern California, 2016.
2. Yuriy Brun, George Edwards, Jae Young Bang, and Nenad Medvidovic. "Online Reliability Improvement via Smart Redundancy in Systems with Faulty and Untrusted Participants." *Technical Report USC-CSSE-2009-510*, Center for Systems and Software Engineering, University of Southern California, 2009.

## Research Grants

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1. “Computation- and Data-Privacy on the Cloud Google”, Google Research, Cloud Credits Award, 2014.

## Formal Presentations and Guest Lectures

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1. Software Analysis Practice. Invited talk at the 14<sup>th</sup> International Conference on ICT Convergence (ICTC23), Jeju Island, Korea, October 12, 2023.
2. Software Analysis in Practice. Guest lecture for USC CS577b Software Engineering, March 22, 2022.
3. The Web and Internet Security. Guest lecture for USC LAW730 Computer Science for Lawyers, September 22, 2020.
4. Software Forensics in Practice. Guest lecture for USC CS699 Software Forensics, January 27, 2020.
5. Collaborative Design Conflicts: Costs and Solutions. Invited talk at the Korean Conference on Software Engineering 2019 (KCSE19), Pyeongchang, Korea, January 29, 2019.
6. Continuous Analysis of Collaborative Design. The IEEE International Conference on Software Architecture (ICSA17), Gothenburg, Sweden, April 6, 2017.
7. Proactive Detection of Higher-Order Software Design Conflicts. The 12th Working IEEE/IFIP Conference on Software Architecture (WICSA15), Montreal, Quebec, Canada, May 7, 2015.
8. Proactive Detection of Higher-Order Software Design Conflicts. University of Southern California Center of Systems and Software Engineering Annual Research Review 2015, Los Angeles, CA, April 15, 2015.
9. Proactive Detection of Higher-Order Software Design Conflicts. PhD Dissertation Defense, Los Angeles, CA, March 19, 2015.
10. Using a Next-Generation Climate Architecture in Education. The 3rd Annual ESGF/UV-CDAT F2F Meeting, Livermore, CA, December 5, 2013.
11. How Software Architects Collaborate: Insights from Collaborative Software Design in Practice. University of Southern California Center of Systems and Software Engineering Annual Research Review 2013, Los Angeles, CA, March 13, 2013.
12. Fast Conflict Detection for Remote Collaborative Software Modeling. University of Southern California Center of Systems and Software Engineering Annual Research Review 2011, Los Angeles, CA, March 8, 2011.
13. CoDesign–A Highly Extensible Collaborative Software Modeling Framework. The 32nd International Conference on Software Engineering (ICSE10), Cape Town, South Africa, May 5, 2010.
14. CoDesign – A Highly Extensible Collaborative Software Modeling Framework. University of Southern California Center of Systems and Software Engineering Annual Research Review 2010, Los Angeles, CA, March 9, 2010.

15. CoDesign/CoWare: A Highly Extensible and Scalable Collaborative Software Modeling Infrastructure. Infosys Aurora 09'. Los Angeles, CA, October 19, 2009.

## Research Project Experience

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### Funded

University of Southern California: ..... Los Angeles, CA, USA  
6/2009 – 12/2014 **CoDesign/CoWare**: A highly extensible, scalable, and event-based collaborative software modeling framework that provides real-time model synchronization, inconsistency checking and conflict detection and resolution via extensible plug-ins. Funded by Infosys Limited.

### Graduate-level

University of Southern California: ..... Los Angeles, CA, USA  
1/2015 – 5/2015 **FLAME**: An extensible collaborative software design framework that detects high-order design conflicts in a proactive way, i.e., before an architect synchronizes her model and finally becomes aware of them.  
Project website: <https://www.flamedesign.org/>  
6/2014 – 12/2014 **sTile**: Secure distributed computation architecture on clouds  
3/2009 – 11/2009 **Smart Redundancy**: Novel redundancy technique for distributed computation. Deployed modified BOINC on PlanetLab.  
7/2009 – 9/2009 **rMapReduce**: A programming model and software framework that extends the MapReduce paradigm to gracefully and efficiently tolerate a wide class of failures, including hard-to-detect failures caused by faulty and malicious nodes. Deployed modified Hadoop on PlanetLab.  
1/2009 – 3/2009 **Mahjong on PlanetLab**: Deployed Mahjong, by Prof. Yuriy Brun, on PlanetLab, as a Directed Research student under the supervision of Prof. Nenad Medvidovic at University of Southern California.

## Professional Services

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### Refereeing and Reviewing

- Computing (COMP) ..... 2023
- Computing (COMP) ..... 2022
- Computing (COMP) ..... 2021
- Computing (COMP) ..... 2018
- Transactions on Software Engineering and Methodology (TOSEM)..... 2015
- 8th European Conference on Software Architecture (ECSA 2014) ..... 2014
- 28th Int'l Conference on Automated Software Engineering (ASE 2013) ..... 2013
- 7th European Conference on Software Architecture (ECSA 2013)

- 4th Int’1 Symposium on Architecting Critical Systems (ISARCS 2013)
- 16th Int’1 Symposium on Component-Based Software Engineering (CBSE 2013)
- 7th Int’1 Symposium on Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2012) .....2012
- 6th Int’1 Symposium on Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2011) .....2011
- 26th Int’1 Conference on Automated Software Engineering (ASE 2011)

## Technical Expertise

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Programming: Java (Spring, JDBC), Ruby (Rails), HTML (Slim), Go, Rust, CSS, JavaScript (Apps Script, React, Angular, Node, CoffeeScript, TypeScript, JQuery), C, C++, C#, Kotlin, Objective-C, Swift, PHP (Hack), Python (Django, Flask), Perl, Visual Basic

Mobile platforms: Android (AOSP, Samsung Galaxy), iOS

Cloud platforms: Microsoft Azure, Google Cloud, Amazon Web Services

Frameworks: Hadoop, PlanetLab, BOINC, GME, Prism-MW, XTEAM

## Honors, Awards, Fellowships

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4/2017 Best Paper Award at Int’1 Conference on Software Architecture 2017

8/2010– 5/2014 USC Annenberg Graduate Fellowship