

Christopher Baek

Professional Experience

Amazon

- **Echo Software eXperience; SDE3/Software Development Manager (10/19 - Present)**
 - Planning and forecasting NLU, platform, and client changes to enable portable, mobile, voice forward experiences
 - Hiring and developing new teams to create end-to-end mobile features
 - Implemented client and backend hero features for Echo Buds and Echo Auto launch
 - Managing team of 7 to build backend storage and API systems for new voice experience
- **Alexa Mobile; Sr. Software Engineer (SDE3) (3/17-9/19)**
 - Designed and implemented dynamic workflow and configuration management system for device provisioning
 - Integrated BLE based device provisioning system
 - Ported device setup workflow from single page application to React Native
 - Scaled monolithic backend through sustained 65K TPS peak periods
 - Designed phased plan to break up monolithic backend into microservices
 - Created foundational design for dynamic Alexa mobile downchannel
- **Hardlines Automotive; Software Engineer (SDE2) (10/15 - 02/17)**
 - Designed and implemented granular vehicle attribute identification system for Vehicle Detail Pages platform launch
 - Integrated ad targeting with Vehicle Detail Pages platform

CME Group

- **Execution and Engineering, Market Data; Sr. Software Engineer (1/13-10/15)**
 - Designed and developed FIX SBE (Simple Binary Encoding) market data platform and automated test framework for component and integration testing
 - Developed automated environment validation, promotion, and deployment tools
- **Production Performance, Metrics, and Monitoring; Software Engineer (10/09-12/12)**
 - Developed platform performance monitoring, testing, and reporting tools
 - Implemented performance enhancements to systems in the critical trading path
- **Enterprise Technology Production Assurance; Systems Engineer (2/08 - 9/09)**
 - Developed automation tools and systems for trading platform administration, monitoring, and support
 - Designed and built multi-tiered DMZ web trading environment

Related Experience

- **Automation Domination**
 - Developed ThreadFix Jenkins plugin (<https://github.com/jenkinsci/threadfix-plugin>)
 - Developed WebInspect Jenkins plugin (<https://github.com/jenkinsci/webinspect-plugin>)
- **Bloc, Mentor (10/17 - 3/18)**
 - Mentored individual students on web development and software engineering tracks
- **New York Code + Design Academy, Instructor (9/16 - 1/17)**
 - Taught and developed lessons and exercises for beginner and intermediate HTML, CSS, and JavaScript courses

Education

- **University of Chicago**; Graduate Student-at-Large: Business ('13 - '14)
- **DePaul University**; MS, Computer Science ('08 - '11)
- **University of Illinois Urbana-Champaign**; BS, Computer Engineering ('03 - '07)