

# ALEXANDER CHANG

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## EDUCATION

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### **B.S. in Computer Science**

University of Illinois at Urbana-Champaign  
August 2015—Dec 2018

## SKILLS & TOOLS

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### PROFICIENT

JavaScript (Angular, React, Node.js), Go, Objective-C, Java, HTML, CSS, C

### FAMILIAR

C++, Python, Swift, Regex, Bash, SystemVerilog, SQL (SQLite, MySQL/MariaDB, Postgres, SQL Server)

### TOOLS

AWS, Docker, Git, Xcode, Android Studio, Sketch, Jenkins

## AWARDS

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### **Michael S. Hughes Award for Software Engineering**

Spring 2018 (Award Recipient)

Designed and helped develop a location-based ride-splitting application (Angular)

### **Intelligent World Hackathon (GE Current)**

August 2016 (Winner: Best Traffic App)

Created a traffic visualization tool for city planners to create safer intersections and prevent fatal accidents with GE's Predix services (Angular, PHP, ChartJS, Mapbox, Predix)

### **SpartaHack**

February 2016 (Winner: Best iOS App)

Created an alarm clock application the turned off by vigorous shaking or moving a pre-set distance (Objective-C)

## WORK EXPERIENCE

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### **Capital One**

Technology Development Program Intern  
June 2018 — August 2018

- Developed a brand new microservices backend to configure Capital One's next generation event driven account engine (Go, Postgres)
- Designed and implemented a novel user interface for end business users to add new and manage current configuration details (Angular)
- Built and managed a Jenkins CI/CD pipeline for the microservices and user interface with auto-deploy to AWS (Jenkins, Docker, EC2, ECS, RDS, ELB, Route53)

### **Point72 Asset Management**

Technology Development Intern  
June 2017 — August 2017

- Developed a CMS for the firm's proprietary portfolio management software (HTML, CSS, JS, Python, LDAP, Postgres, Docker, SQL Server)
- Prototyped custom mobile portfolio viewer for future development (React)
- Designed, mocked up, and developed frontend for portfolio managers' post-trade analytics tool (React)

### **Capital One**

Project Management Intern  
January 2017 — May 2017

- Redesigned and developed internal data analytics dashboard for mobile application KPI tracking (Angular, SQLite, Node.js)
- Built custom visualizations in D3 (D3.js, JS, SQL)
- Optimized page load performance time and resource use 35% (Node.js, Angular)

### **Center for Learning and Behavior Solutions**

Freelance Full-stack Developer  
June 2015 — August 2016

- Prototyped, designed, developed, and managed a dynamic online test-taking and learning system with progress tracking, grade reporting, testing interfaces, and reporting tools (HTML, CSS, JS, MySQL, PHP)
- Helped scale system to 5x initial user base and helped engineer 2x improvement in engagement time on system

## PROJECTS

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### **Chroma (2016)**

A color swatch editor and generator that assists designers and developers. (Objective-C)

### **Neverlate (2015)**

A bell schedule mobile application that helps students stay on time by syncing devices with a central schedule from school admins. 6,000 downloads across 16 high schools in 3 states (Objective-C, Node.js)

### **GradeCheck (2013)**

A grade and test-score browser for students and parents. Reached 40,000+ combined downloads on the iOS and Android applications and 1,000,000+ requests a month on the API (Objective-C, Java, PHP)