

# Andrew RAGUSE



## SUMMARY

I am seeking opportunities in full-stack development, bringing experience in front-end development, AWS, and cross-team collaboration. After a rewarding stint learning Spanish and backpacking through Latin America, I'm ready to apply my skills to new challenges.

## CONTACT

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 drew-codes.com

## EDUCATION

### University of California, Berkeley

- GRADUATION DATE: *May 2020*
- MAJOR: *Computer Science*
- VP of Communications at *The Berkeley Forum*

## SKILLS

### Programming Languages

- Java
- Python
- JavaScript
- TypeScript
- HTML/CSS
- SQL (*Intermediate*)
- C++ (*Intermediate*)

### Frameworks

- React
- AWS DynamoDB
- AWS EC2
- AWS S3

### Tools

- Adobe Creative Suite
- Figma

## EXPERIENCE

### AMAZON

*Software Development Engineer II*  
*Software Development Engineer I*

**Sep 2020 - Jun 2023**

- Led extensive, cross-team scalability efforts of an AWS service that provides seamless delivery of visual content to Alexa screen devices, increasing throughput from 400 to 8,000 transactions per second. Ensured high performance by conducting load and stress tests, provisioning additional hosts and threads, and implementing dynamic content selection for multiple content cards.
- As a cross-team engineer working across 5+ microservice codebases, I contributed to 12.2 million annualized dialogs, an increase of 250,000 in monthly active users, 580,000 daily active users, and a high six-figure amount in annual revenue for the Alexa Home Productivity team.
- Developed scalable and extendable GUI templates, data schemas, and rendering logic across microservices (alarms, reminders, kitchen), enabling the team to run visual experiments on Alexa screen devices. Created new APIs and established cross-domain handoffs to facilitate seamless event creation, deletion, and editing across different domains.
- Designed the infrastructure for end-to-end integration testing to support Alexa screen device A/B experiments, incorporating API mocking, visual template data validation, cross-domain handoff validation and automated AWS CodePipeline testing to ensure reliability and scalability.
- Enhanced operational excellence by fine-tuning our team's service performance monitors, adding promotion blockers, rollback alarms, and experiment-specific dashboards. Developed integration testing for our service's upsell card content and designed an override system to support automated pipeline testing and user acceptance testing.
- Onboarded and mentored newer team members on backend architecture, guiding them through the end-to-end experiment development process. Authored comprehensive documentation on service onboarding, load testing, integration testing, and experiment creation to facilitate knowledge sharing and support the team's growth.

### INJECTSENSE

*Artificial Intelligence Intern*

**Jun 2018 – Aug 2018**

- Conducted competitive market research on AI applications in the medical field to understand how data was collected, utilized, and which machine learning practices were used in similar medical technologies.
- Collaborated with Software Engineers to develop a strategy for integrating AI and machine learning practices into the company's medical data analysis processes.

### INPHI CORPORATION

*Software Engineering Intern*

**Jun 2017 - Jul 2017**

- Streamlined data management using Python and SQL, consolidating scattered test information into a standardized Excel format.
- Engineered an internal database for streamlined access to chip data, enhancing report generation and analysis capabilities.

## PROJECTS

### PERSONAL WEBSITE

**2024**

- Illustrated, designed, and constructed a personal portfolio website from scratch utilizing React, Adobe Creative Suite, and Figma.
- Integrated contact forms with EmailJS, optimized the website for performance and accessibility, and deployed it to GitHub Pages.