

Austin Huang

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PROFESSIONAL EXPERIENCE

Amazon

August 2022 – Present

Software Development Engineer II, Alexa Mobile Performance Engineering

- Engineer early regression-detection and metrics guardrail tooling on all platforms of the Alexa mobile app. Reduced Android crash rate by 25% and latency by 41.6%; iOS latency by 21.3%
- Architected and implemented an AWS-hosted backend service from scratch to address failed Alexa utterances, reducing friction from 96% to 8% and achieving 40+ bps reduction in overall frictional utterances
- Designed and implemented a highly-scalable A/B regression-testing feature enabling 70+ teams to run concurrent test automations, identifying latency regressions at commit level
- Optimized test device utilization on AWS Device Farm, eliminating device contention and reducing maximum test wait times from 12 hours to 5 minutes
- Developed automated crash analysis system for release sign-offs, saving ~10 developer hours/week
- Managed summer intern, developing project curriculum focused on scalable design and clean coding standards

Capital One

Summer 2021

Software Engineering Intern

- Developed full-stack encryption key rotation automation platform, reducing manual key management overhead for 50+ development teams
- Built intuitive React/TypeScript onboarding wizard to streamline key configuration and rotation
- Contributed to backend service built with AWS Serverless Application Model, AWS Lambda, and Snowflake APIs
- Implemented enterprise-level CI/CD practices using Jenkins and proprietary deployment technologies

WeMo Scooter

Summer 2020

Software Engineering Intern

- Led in-house migration of battery-monitoring console, enabling real-time status tracking for 7,000+ scooter fleet
- Designed and implemented full-stack solution using TypeORM for database migration, TypeScript REST APIs, and React frontend
- Collaborated with cross-functional team of 4 engineers and PM to optimize for hardware monitoring requirements

Microsoft

Summer 2019

Software Engineering Intern

- Engineered real-time sentiment analysis web application using NLTK/Azure Cognitive Services to process 50,000+ daily tweets filtered by keywords
- Built interactive data visualization dashboard using Power BI and MySQL for real-time sentiment tracking
- Deployed application using Azure Cloud Services

PROJECTS

Trojan Check-In/Out

Spring 2021

Full-Stack Developer

- Three-tiered Android application for building capacity management, built in response to COVID-19
- Developed XML student user interface and Java/JavaScript backend functionalities, including QR-code support for building entry, push notifications, and serverless cron jobs using Firebase Cloud Functions

Access.io

Spring 2020

Java Backend Developer

- Web application that gathers user-reported accessibility features of locations, generating an “accessibility score”
- Developed key features including storing and processing user reviews and ratings. Built with a team of 6 developers

EDUCATION

University of Southern California

May 2022

Bachelor of Science in Computer Science/ Business Administration

Honors and Awards: Dean’s List (all semesters), President of USC International Consulting Club, Boeing Design Challenge (1st place), PwC Case Competition (2nd place)

TECHNICAL SKILLS

Programming Languages: Java/Kotlin, C++, Python, JavaScript/TypeScript, HTML/CSS, Swift, SQL

Frameworks/Technologies: AWS/Azure/GCP, React/React Native, Node.js, PostgreSQL, Git, Docker, Linux