Aaron Huang

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Experience

Google   **AUG 2022 - MAR 2023**

Software Engineer

- Developed a firmware update delivery system for millions of remotes via Google Play Store on Chromecast devices running Android TV operating system
- Built and tested an internal tool in Kotlin to summarize changes in pre-release device firmware builds across all Google Nest branded products
- Increased JUnit test coverage by 75% on code responsible for receiving and verifying signed certificates on Chromecast devices

Amazon   **MAY 2021 - AUG 2021**

Software Development Engineer Intern

- Implemented on-device testing functionality for the Android application running on Amazon One devices with Java and Dagger
- Created new modal windows for a customer-facing dashboard to parse and send sensitive biometric data to a remote service in React
- Added new methods to a Coral web service to relay JSON payloads to IoT Android devices via MQTT
- Designed, built, and tested new features for Amazon One after gathering requirements from the Research team

Farm Generations   **JUL 2020 - SEP 2020**

Frontend Developer Intern

- Worked on an Agile development team to build a consumer-facing farm discovery and shopping portal in React Native
- Integrated Stripe API integration into an existing farm management app to accept payments and manage user transactions

Soracom Global Inc.   **JUN 2019 - JAN 2020**

Software Engineer Intern

- Created an Android app with React Native to remotely manage an electric scooter while reducing data costs by 66%
- Co-authored technical articles on *Hacker Noon* with hundreds of hours read and starred in demonstration videos on YouTube

Education

University of California, Berkeley   **AUG 2018 - MAY 2022**

Bachelor of Arts, Major: Computer Science | Minor: Music

Relevant Coursework: Algorithms, Data Structures, Computer Security, Machine Structures, Operating Systems, Information Devices and Systems, Deep Neural Networks, Database Systems, Principles and Techniques of Data Science

Projects

Bobafetch

Stack: React Native, Stripe API, Python, Microsoft Azure, Arduino

- Collaborated with an Agile development team to win "Best Use of Hardware" and "3rd Place Overall" at CalHacks 6.0 over 1000+ competitors
- Created an automated boba barista machine and delivery robot in a weekend to reduce bubble milk tea operating costs by 80%
- Built a customer-facing React Native tablet app for placing orders and buying bubble milk tea

Blindsight

Stack: Android, Node.js, Python (OpenCV), Tensorflow, Raspberry Pi

- Won semi-finalist award at TechCrunch Disrupt SF Hackathon and featured on CBS news out of 100+ other teams
- Used OpenCV in Python to create an assistive device with on-device object recognition, machine learning, and optical character recognition (OCR)
- Designed and implemented a voice interface for Android with speech recognition and Tensorflow NLP models

Technical Skills

Technologies: Android, Linux kernel, REST APIs, Node.js, React + React Native, GraphQL, Git, Protocol Buffers, Flask, Dagger, MongoDB, PostgreSQL

Languages: Java, Kotlin, Python, HTML5/CSS/JavaScript, Typescript, SQL, C/C++, Go