

Aaron Huang

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Experience

Google

AUG 2022 - MAR 2023

Software Engineer

- Added functionality to the Android TV operating system running on Chromecast devices to deliver firmware updates to millions of remotes via the Google Play Store
- Built and tested an internal tool in Kotlin for summarizing changes in pre-release device firmware builds across all Google Nest-branded products
- Increased Chromecast security by increasing JUnit test coverage by 75% across on-device code for receiving and verifying signed certificates

Amazon

MAY 2021 - AUG 2021

Software Development Engineer Intern

- Added on-device testing functionality to 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
- Added Stripe integration onto an existing farm management app to accept payments and manage user transactions
- Cleaned and managed data from thousands of farms for use in Google's Firebase platform

Soracom Global Inc.

JUN 2019 - JAN 2020

Software Engineer Intern

- Added an analytics and payment platform with the Stripe API onto an electric scooter to demonstrate Soracom's cellular services
- 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

- Worked with an Agile development team to win "Best Use of Hardware" and "3rd Place Overall" at CalHacks 6.0 over thousands of other competitors
- Created an automated boba barista machine and delivery robot in a weekend to reduce bubble milk tea operating costs by 75%
- Built a customer-facing React Native tablet app for placing orders and buying bubble milk tea

Technical Skills

Technologies: Android, Linux kernel, NumPy/SciPy, TensorFlow + Keras, Flask, Dagger, MongoDB, Node.js, React + React Native, Git, Protocol Buffers

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