Eric Hsueh

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EDUCATION

University of California, Irvine   **Expected Graduation: June 2021**
Bachelor's of Science in Computer Science   **GPA: 3.8**

Relevant Coursework:

Data Structures Implementation and Analysis, Design and Analysis of Algorithms, Computer Networks, Principles of Operating Systems, Principles in System Design

WORK EXPERIENCE

Amazon Web Services (AWS) | Seattle, WA   **June 2020 — September 2020**
Software Development Engineer Intern
- Worked under the AWS subdivision Managed Prometheus and Grafana to contribute to the open source observability project OpenTelemetry
- Built an exporter using C++ that transports metrics data from processes instrumented by OpenTelemetry to the monitoring backend Prometheus
- Collaborated on a design document to outline use cases, design tenets, and methodology behind the exporter
- Gained experience in an Agile work environment, participating in daily stand-ups and weekly project reviews to report progress

AEssense | Sunnyvale, CA   **June 2018 — September 2018**
Software Engineer Intern
- Implemented a reliable and consistent mobile UI for an Android application, allowing customers ease of access to manage their systems
- Used AEssense's REST API to add plant growth monitoring functionalities to the app
- Utilized Katalon Studio's automation toolset to ensure functionality of their Guardian™ Grow Manager automation software

PROJECTS

SmartCycle   **October 2019 — November 2019**
- Worked with a team to write and implement the software behind the SmartCycle, a smart recycling bin that is capable of sorting mixed recycling from trash
- Contributed to the development of an algorithm that uses the Google Cloud Vision API to sort mixed recycling and trash
- Wrote a python script for a Raspberry Pi that connects to a Firebase database and listens to real time updates in order to turn a stepper motor accordingly

Optimized Search Engine   **April 2019 — June 2019**
- Collaborated with a small team to produce a fully functional search engine in Python, capable of returning relevant documents given a user query
- Uses and implements multiple key ideas of Information Retrieval, such as word stemming, building an inverted index, trap detection, and document scoring, utilizing libraries such as NLTK, BeautifulSoup, and lxml

SKILLS

Programming Languages: C++, Python, SQL, Java, C, Go
Tools: Git, Docker, Firebase, MySQL, Tensorflow