Kailani Chu

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Work Experience

Google — Sunnyvale, CA
Software Engineering Intern on Cloud Platforms — *May 2019 - August 2019*

- Developed a Kythe indexer for SystemVerilog source in C++11, operating on an abstract syntax tree
- Enhanced functionality for company-wide developer productivity tools, actively used by thousands of hardware engineers across Alphabet

Salsify — Boston, MA
Software Engineer Co-op on Platform Foundations — *January 2019 - May 2019*

- Participated in a fast-moving SCRUM engineering team using Ruby, Rails, Postgres, Kubernetes, and AWS
- Designed and implemented standard error handling in the new customer-facing GraphQL Rails API, improving UX and developer productivity with GraphQL
- Completed implementation of multilingual support on the Salsify platform
- Assisted in design and implementation of complex product data modeling capabilities

Thermo Fisher Scientific — Franklin, MA
Software Engineer Co-op — *January 2018 - June 2018*

- Designed, implemented, and released a low-cost air monitoring software/hardware platform to improve air quality in developing countries in a team of 7
- Developed a Linux userspace I²C driver in C++11 to allow management and usage of multiple I²C devices

Skills

Languages	Python, Ruby, C++, C, Java, JavaScript, HTML, CSS, Bash
Technologies	Linux, Git, Ruby on Rails, Django, Boost C++ Libraries, Selenium Docker, jUnit, Vue, NodeJS, SQL, Apache2, Django

Education

Northeastern University — Boston, MA
College of Computer and Information Science — *Expected Graduation May 2020*
B.S. in Computer Science, Dean's List — *GPA: 3.6 / 4.0*

- Relevant Courses: Software Development, Programming Languages, Object Oriented Design, Algorithms and Data Structures, Computer Systems, Theory of Computation

Personal Projects

WWII Enlistments Data
In Progress — github.com/kailanichu/wwii-enlistment-scrape

- Created a Python script utilizing Selenium and Docker to scrape WWII US Army enlistment data from archives.gov, totaling 60GB of HTML
- Processed HTML into machine-readable data, using SQLAlchemy, and Google Cloud PostgreSQL

Tabulate
In Progress — github.com/kailanichu/tabulate

- Built a Chrome extension in JavaScript, HTML, and CSS to easily manage tabs across workspaces and windows

Extracurriculars and Other

- Languages: Native speaker of English and Mandarin Chinese
- Activities: Association for Computing Machinery, NUHacks, Ukulele club, Experimental Aircraft Assocation