

Alec Ge

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Work Experience

Google

Sunnyvale, CA

Software Engineering Intern on Cloud Platforms

May 2019 - August 2019

- Developing a Kythe indexer for SystemVerilog source in C++11, enhancing functionality for company-wide developer productivity tools

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
- Designed a program in Python to connect to an instrument via VNC and automatically take screenshots on changed UI elements, shortening the development cycle by one week

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/alecge/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/alecge/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 Association