

# Alec Ge

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## Work Experience

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### 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 I<sup>2</sup>C driver in C++11 to allow management and usage of multiple I<sup>2</sup>C 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

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### 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

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### 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

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### 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

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