

# Alec Ge

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Available January - August 2019

## Education

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### Northeastern University

*B.S. in Computer Science*

*College of Computer and Information Science*

**Boston, MA**

*September 2016 - Present*

*GPA: 3.6 / 4.0*

- Dean's List
- Relevant Courses: Object Oriented Design, Algorithms and Data Structures, Computer Systems, Programming in C++, Theory of Computation

## Skills

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### Languages

Python, Java, C++, C, JavaScript, HTML, CSS, Bash

### Technologies

Linux, Git, Boost C++ Libraries, Selenium, CMake, Make

Docker (docker-compose), JUnit, Vue, NodeJS, SQL, Apache2, Django

## Work Experience

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### Thermo Fisher Scientific

*Software Engineer Co-op*

**Franklin, MA**

*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 generic Linux userspace I<sup>2</sup>C driver in C++11 to allow easy management and usage of multiple I<sup>2</sup>C devices
- Created a plug-and-play serial communication Linux framework over USB leveraging Boost C++ Libraries to configure and manage instruments
- Designed a program in Python to connect to an instrument via VNC and automatically take screenshots on changed pages, shortening the development cycle by one week
- Extended legacy C instrument firmware to enhance performance and add features for customers
- Led research into new software tools to enhance developer productivity and efficiency
- Planned and led team meetings to demonstrate newly deployed technologies such as Git and clang-tidy

## Personal Projects

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### WWII Enlistments Data

*In Progress*

*[github.com/alecge/wwii-enlistment-scrape](https://github.com/alecge/wwii-enlistment-scrape)*

- Created a Python script utilizing Selenium and Docker to scrape WWII US Army enlistment data from [archives.gov](https://www.archives.gov)
- Processed HTML into machine-readable data, using BeautifulSoup4, CSV, SQLAlchemy, and Google Cloud PostgreSQL

### Tabulate

*In Progress*

*[github.com/alecge/tabulate](https://github.com/alecge/tabulate)*

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