

Alec Ge

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Available January - August 2019

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: Object Oriented Design, Algorithms and Data Structures, Computer Systems, Programming in C++, Theory of Computation

Skills

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

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 generic Linux userspace I²C driver in C++11 to allow easy management and usage of multiple I²C 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

North Allegheny Computer Club Outreach

Pittsburgh, PA

Mentor

May 2014 - June 2016

- Taught middle school students essential programming concepts using Python as part of an after-school minority outreach program for STEM

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 BeautifulSoup4, CSV, 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, HuskyHacks Hackathon