

Alexander Chung

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Education

Stony Brook University

B.S. Computer Science, B.S. Applied Mathematics and Statistics

GPA: 3.78

Relevant Coursework: Full Stack Web Development, Software Engineering, Analysis of Algorithms, Survey of Probability & Statistics, Data Structures, Computer Networking, Machine Learning

Stony Brook, NY

August 2017 – Present

Skills

Programming Languages: Python, JavaScript, HTML, C, Java, R, OCaml, MIPS Assembly

Technologies: React, NodeJS, Spring Boot, MongoDB, Amazon EC2, Git

Projects

Titans Redistricter

Software Engineering – Fall 2020

- Collaborated with 2 other software engineers to design and develop a web application that generates and analyzes congressional districtings for racial bias patterns.
- Created a frontend using **React** that consumes a **RESTful API** developed in **Spring Boot** and stores data in a **MySQL** database
- Designed and deployed redistricting algorithm written in **Python** and optimized using cProfile
- Parallelized algorithm across several **HPC clusters** running jobs on 100+ CPU cores

Tabnabbing Detection Chrome Extension

Computer Security Fundamentals – Fall 2019

- Collaborated in a team of four to develop a chrome extension that notifies user of possible Tabnabbing attack and allows user to report URL to a database of other malicious URLs
- Implemented using **JavaScript**, **NodeJS**, RESTful API with MongoDB Atlas and mongooseJS
- Deployed chrome extension on **Amazon EC2** Linux server

Experience

Department of Education: Adult Continuing Education

Data Entry Intern

Garment District, NYC

June 2019 – August 2019

- Managed and entered client data into DOE database
- Worked with outreach phoning potential adults interested in continuing their education

Mr. Li's Learning Center

Assistant Instructor

Manhattan, NYC

June 2016 – September 2018

- Taught high school students taking the SAT/ACT in mathematics and Science
- Graded and compiled student's test scores into Excel