

Alexander Chung

✉ alexchung.dot@gmail.com

in alexander-chung714

☎ (646)-346-0389

👤 alexander-chung

Education

Stony Brook University

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

GPA: 3.79

Achievements: *Summa Cum Laude*

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

Stony Brook, NY

Graduated May 2021

Projects

CryptoTrack

Winter 2020

- Built a Full Stack web application using **React, NodeJS, Express and MySQL** that allows users to track cryptocurrency statistics and build their own custom crypto-portfolio
- Leveraged the CoinGecko API to track 6000+ cryptocurrencies
- Utilized **Chart.js** to create robust and responsive charts of cryptocurrency prices
- Implemented **OAuth authentication** using Auth0's React SDK

Titans Redistricter

Fall 2020

- Collaborated with 2 other software engineers to design and develop a full stack web application that generates and analyzes congressional districtings for racial bias patterns.
- Created a frontend using **React** that consumes a **REST API** backend developed in **Spring Boot**
- Users submitted jobs are stored 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

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 **AWS EC2** Linux server

Experience

Department of Education: Adult Continuing Education

Garment District, NYC

Data Entry Intern

June 2019 – August 2019

- Managed and entered client data into DOE database
- Worked with outreach phoning potential adults interested in continuing their education
- Facilitated discussion with adults to clear up understanding of how to get a GED equivalent diploma

Skills

Programming Languages: JavaScript, HTML, CSS, Python, Bash, Java, R Studio

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