

Andrea Foo

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Education

TUFTS UNIVERSITY, Medford, MA

Bachelor of Science in Computer Science & Chemistry, May 2022

GPA: 3.91

Awards: Dean's List (Fall 2018, 2019, Spring 2021), Tufts Summer Scholars Research Scholarship, Max Tishler Prize Scholarship

Relevant courses: Data Structures, Machine Structure & Assembly language programming, Artificial Intelligence, Cloud Computing, Computation Theory, Algorithms, Web Programming, Introduction to Security, Computational Biology, Calculus II, Discrete Math, Linear Algebra, Programming Languages

Work Experience

TUFTS COMPUTER SCIENCE DEPARTMENT, MEDFORD, MA, Fall 2020 - Present

Computer Science Teaching Assistant

- Hold more than 10 hours of Office Hours every week to help class size of over 300 students with difficulties understanding
- Conduct computer lab sessions for 30+ students to teach programming in C++ and other basic concepts

GRAB HOLDINGS INC., SINGAPORE, June 2021-August 2021

Backend Software Engineer Intern

- Collaborated with data scientists and backend engineers across several teams to design, implement, test, and deploy a new transportation supply allocation microservice using GO, Datadog, Kibana, Redis, Conveyer, and several other tools
- Migrated and deprecated endpoints from one microservice API to a newer API service to streamline and allow backward compatibility with both services

T-LAB EDUCATION, SHANGHAI, CHINA, January 2021-May 2021

Full Stack Software Engineer Intern

- Built a content management system for the company's operations team to manage promotion websites and app using Angular, NestJS, and other frameworks and tools
- Designed and implemented promotional websites for debut of the app using Angular

TUFTS CODE FOR GOOD, Summer 2020

Front-End Software Engineer

- Collaborated and worked with a group of Tufts students for The Village Method, a nonprofit organization based in California
- Created a web app that allows students to track their graduation progress according to the UC/CSU standards
- Implemented most of the front end of the web app using ReactJS, Python, JavaScript, HTML, CSS

TUFTS CHEMISTRY DEPARTMENT, MEDFORD, MA, May - September 2020

Tufts Summer Scholars Research Scholarship Recipient

- Received a research grant for project proposal on developing cost-efficient photovoltaic cells
- Conducted remote research online through data analysis, software modelling, and computer programming
- Presented research results in a research panel to other summer scholars recipients and professors

TUFTS CENTER OF ENGINEERING AND EDUCATION OUTREACH, MEDFORD, MA, January 2019 – September 2020

Student Teacher Outreach Mentorship Program Fellow

- Organized Science and Engineering activities for elementary school kids to promote interest in STEM fields by collaborating with fellow residents to create lesson plans
- Utilized effective communication skills to teach students of younger ages complex engineering and science concepts

Skills

Programming/Scripting Languages: C, Java, C++, Python, HTML, CSS, Angular, Javascript, Typescript, GO

Frameworks/Tools: Heroku, Git, React, NodeJS, AWS, NestJS, Jenkins

Foreign Languages: Chinese, Spanish, Cantonese