

Andrea Foo

Software Developer

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[LinkedIn](#) • Medford, MA, 02144

[Portfolio Link](#) • [GitHub Link](#)

Proactive and solution-oriented professional, pursuing education in Computer Sciences with strong technical knowledge in conceptualizing, planning, and developing computer software. Capable of managing complete software development lifecycle from conception to completion. Well established ability of designing front-end by using ReactJS, Python, JavaScript, HTML, CSS. Instrumental in managing high-volume tasks and workload to enhance organizational effectiveness. Ability to accomplish set goals, while ensuring adherence with budget, quality, and scope. Skilled in utilizing various tools and frameworks including Heroku, Git, React, NodeJS, AWS, NestJS, Jenkins. Hands-on experience in working with C, Java, C++, Python, HTML, CSS, Angular, Javascript, Typescript, GO languages and frameworks. Articulate communicator with excellent programming, logic-building, and debugging skills.

Technical Proficiencies

Programming Languages: C | Java | C++ | Python | HTML | CSS | Angular | Javascript | Typescript | GO

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

Career Highlights

Tufts University, Medford, MA

2019 – Present

Bachelor of Science in Computer Science & Chemistry

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

Develop Strong understanding of complete software development lifecycle, software development fundamentals, and conceptualizing computational challenges. Enhance algebra, computational, mathematical, and calculus skills to ensure flawless calculations.

- Gained expertise in data analysis, using industry-standard IT facilities.
- Acquired skills in web programming, cloud computing, computations theory, assembly language programming, and data structure.
- Achieved awards for Dean's List in fall 2018, 2019, and spring 2021, along with Tufts Summer Scholars Research Scholarship, and Max Tishler Prize Scholarship.

Tufts Computer Science Department, Medford, MA

2020 – Present

Computer Science Teaching Assistant

Utilize ten hours weekly to guide and aid more than 300 students in improving technical understandings and resolving queries. Enhance coding skills and other basic concepts through C++ programming by teaching and mentoring 30+ students in lab sessions.

- Backed and supported approximately 50 students every week to clear uncertainties on lecture material and assignments to improve knowledge and skills.
- Conducted interactive lab session every week to train students effectively, while hosting 6 hours of office hours to ensure seamless work and progress.

Grab Holdings Inc., Singapore
Backend Software Engineer Intern

2021

Leveraged GO, Datadog, Kibana, Redis, Conveyer, and several other tools by collaborating with data scientists, backend engineers, and several cross-functional teams to design, test, implement, and deploy new transportation supply allocation micro-service. Engaged in streamlining services operations and improve compatibility by transforming deprecated endpoints from one micro-service API to new API service.

- Improved potential allocation rates for app by 15% by working on allocation micro-service project to gain optimum outcomes.
- Delivered effective final presentation of project to team members for enhanced overview and understanding.

T-Lab Education, Shanghai, China
Full Stack Software Engineer Intern

2021

Employed several tools and frameworks, including Angular and NestJS to design, develop, and deploy Content management System for streamlining company's operations in managing promotion websites. Conceptualized and developed promotional websites for debut of app through utilization of best development practices using Angular Framework.

- Created content management system for marketing team to promote and advertise new web app with landing pages.

Tufts Code for Good, Remote
Product Manager and Front-End Software Engineer

2020

Involved in collaboration with group of Tufts students for nonprofit organization The Village Method located in California to deliver exceptional services. Leveraged programming skills to design front-end of web apps through ReactJS, Python, JavaScript, HTML, and CSS to ensure accurate and flawless programming activities.

- Planned, designed, and developed web app in compliance with UC / CSU standards to track and maintain records of graduation progress for The Village Method.

Additional Experience

Tufts Summer Scholars Research Scholarship Recipient at Tufts Chemistry Department

Student Teacher Outreach Mentorship Program Fellow at Tufts Center of Engineering and Education Outreach

Global Orientation Host advisor at Tufts University International Center

Education

Bachelor of Science in Computer Science & Chemistry
Tufts University, Medford, MA