Andrea Foo

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Education

Harvard University, Cambridge, MA   **June 2022 – May 2023**

Master of Education in Learning, Design, Innovation, and Technology
GPA: 4.0
- **Awards**: Semi-finalist for the Innovation Lab President's Challenge
- **Relevant Courses**: Formative Evaluations for Educational Technology, Product Management and Society, Design Technology and Social Impact, Informal Learning for Children, Innovation by Design: Projects in Educational technology, Tangible User Interfaces, Designing for Equity, Evidence, and Ecosystem, Facilitating Professional Learning for Adults

Tufts University, Medford, MA   **September 2018 – May 2022**

Bachelor of Science in Computer Science & Chemistry
GPA: 3.92
- **Awards**: Dean's List (all four years), Tufts Summer Scholars Research Scholarship, Max Tischler Prize Scholarship, Margaret Durkee Angell and Henrietta Brown Durkee Scholarship Fund
- **Relevant courses**: Web Programming, Algorithms, Machine Structure and Assembly Language, Data Structures, Discrete Math, Cloud Computing, Linear Algebra, Introduction to Security, Computational Biology, Intro to Artificial Intelligence

Work Experience

Harvard Forest, Petersham, MA   **January 2023 – present**

User Experience Designer
- Conduct thorough user research of Harvard Forest Schoolyard teachers through 10 one-on-one interviews and built user personas based on user research using UX design principles
- Redesign the Harvard Forest Schoolyard Resources webpage to prioritize usability and accessibility, leading to a more streamlined user experience

Seerlight, Cambridge, MA   **October 2022 – present**

User Experience Designer, Software Developer
- Co-established Seerlight, an educational startup within the Harvard Innovation Labs, with a mission to support first-generation, low-income students through a structured, supportive, and engaging college admissions process
- Developed and executed the web application and marketing landing page website ReactJS, MongoDB, and Github
- Currently advancing as a semi-finalist in the Harvard Innovation Lab's President's Innovation Challenge

Research Institute of Learning and Development (ResearchILD), Lexington, MA   **September 2022 – present**

Instructional Design Intern
- Collaborate with senior-level instructional designer to develop teacher and student-facing educational e-learning modules on a learning management system using Articulate360, Vyond, and MurfAI
- Assist ResearchILD president, program director, and key SMEs to understand user needs and build effective learning
- Conduct user testing with 1000+ teachers and analyzed data responses, resulting in 25% improvement in learning outcomes
- Create, write, and edit storyboards, scripts, and other materials for online material content

Tufts Computer Science Department, Medford, MA   **August 2020 – August 2022**

Computer Science Teaching Assistant
- Coached 50 students per week to clear uncertainties on lecture material to improve technical knowledge, resulting in a 15% improvement in exam scores
- Enhanced coding skills and other basic concepts through C++ programming by teaching 30+ students in lab
- Taught interactive lab sessions and office hours every week to train students effectively

Grab Holdings Inc., Singapore   **June 2021 – August 2021**

Backend Software Engineer Intern
- Engineered with data scientists, backend engineers, and other cross-functional teams in this IPO-listed Southeast Asian technology unicorn company to design, test, implement, and deploy new supply allocation micro-service
- Engaged in streamlining services operations and improve compatibility by transforming deprecated endpoints
- Improved allocation rates for app by 15% by working on allocation micro-service project to gain optimum outcomes.

T-lab Education, Shanghai, China   January 2021 – May 2021
Full Stack Software Engineer Intern
- Cooperated with 3 other members on the startup team to design the educational content for the web app
- 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
- Developed automated promotional websites for debut of app utilizing development practices in Angular Framework

Tufts Code for Good, Remote   June 2020 – August 2020
Project Manager and Front-End Software Engineer
- Leveraged programming skills to design front-end of web apps through ReactJS, Python, JavaScript, HTML, and CSS
- Collaborated with The Village Method to develop sustainable academic pipelines from elementary to college
- Planned, designed, and developed web app to track and maintain records in compliance with CSU standards of graduation progress for The Village Method

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
- Taught students of younger ages complex engineering and science concepts using effective communication

Projects

Mind Over Media   January 2023
- Led a team of designers and researchers in developing a series of four interactive public installations to support young adolescents in building mindfulness, critical thinking skills, and resilience while navigating the digital world
- Conducted formative evaluations to inform eh design and incentives of the installations
- Designed and prototyped the public installations using Figma and Canva
- Presented proposal to a panel of executives, including the CEO of Sesame Street, to showcase innovative approach

In Our Own Words Harvard CLIF Project   November 2022 – December 2022
- Interviewed and collected interview snapshots of students in Harvard to illuminate AAPI voices in the community
- Redesigned and implemented informational website displaying AAPI history and snapshots of current students

We Belong   October-December 2022
- Conducted user research to gather insights into the challenges and motivations of East Asian women pursuing STEM careers
- Analyzed data from surveys, interviews, and focus groups to inform the development of the mobile app platform
- Designed and prototyped the mobile app platform, including user interface, navigation, and overall user experience
- Executed user testing to validate design efficacy and collected feedback for further improvements

Basil   September-December 2021
- Developed the concept and user flow for a recipe sharing mobile app to allow users to share recipes with friends and family members far away
- Conducted user research with current young adults to gather insights into their needs and pain points for their first time living alone
- Designed and prototyped the user interface to ensure intuitive, visually appealing, and accessible platform

Skills

Programming Languages: C, Java, C++, Python, HTML, CSS, Angular, JavaScript, Typescript, GO, React
Frameworks/Tools: Heroku, Git, React, AWS, Jenkins, Kibana, Datadog, Jira, Articulate360, Vyond
Design Tools: Adobe Photoshop, Canva, Figma, Balsamiq
Other: Scrum, Agile, Waterfall, research and writing skills, administrative and project management experience, attention to detail, ability to work independently and as part of a team, proactive, problem-solving, good communication skills, data management skills, excellent staff management skills, mentoring and coaching, excellent conceptual thinking, analytic, interpersonal, strategic planning