

Grace Lee

grace_lee1@brown.edu | linkedin.com/in/grace-i-lee | grace-ivie.me

EDUCATION

Brown University – GPA: 4.0/4.0

Sc.B. Computer Science and Economics

Coursework: Software Engineering, Computer Systems, Data Structures, Calculus, Probability and Statistics, Linear Algebra

Providence, RI

May 2023

EXPERIENCE

Fidelity Investments

Incoming Fullstack Engineering Intern

Westlake, TX

June 2021 – August 2021

- Coming soon!

Brown University Computer Science

Teaching Assistant

Providence, RI

August 2020 – Present

- Guided students in 3 courses, each 200+ undergraduates, through class material by holding hours/labs for 4 hours/week.
- Rewrote a homework assignment to incorporate data ethics and helped debut a new project on graph algorithms.
- Mentored 12 groups of first-time programmers through the design and implementation of 3 in-class projects.

Brown Initiative for Policy (BIP)

Co-Director, Water Quality Project

Providence, RI

September 2019 – June 2021

- Supervised the development of a lead poisoning safety website; prototyped in **Figma** and styled with **CSS/Javascript**.
- Pitched strategies to execute and fund lead pipe replacement to the board of directors of Providence's water utility, leading to the creation of a project partnering with the utility to develop a lead line replacement implementation plan.
- Brainstormed how to restructure BIP for long-term scalability, helping institute the project development team.
- Directed a team of 3 in conducting a case study investigating lead pipe replacement logistics in 4 American cities.

ACTIVITIES

Brown Entrepreneurship Program

Innovation Dojo Cohort Member

Providence, RI

January 2021 - April 2021

- Conducted bottom-up research and iterated on solutions, business models, and revenue streams to develop a venture.
- Ideated brand identity and designed a logo, a 25-slide pitch deck with Canva, and a product prototype with **Figma**.
- Awarded 3rd prize after presenting the start-up idea at a pitch competition and was approached by a Forbes 30 under 30 start-up founder to discuss potential partnerships.

Driving Tomorrow

Communications Director

Denton, TX

May 2018 – January 2019

- Launched 8 donation drives, collecting and donating a total of 25,000 items toward poverty reduction and disaster relief.
- Initiated a project which built mini-libraries of 300+ books for 3 community organizations serving low-income families.
- Supervised and mentored an 8-member junior board as part of a 4-member executive board.

PROJECTS

Tunes for Change Music Library

React.js, Bootstrap, Node.js, Express.js, MariaDB (SERV)

Jan 2021 – Present

- Developed a responsive web app for a music service club; worked with 2 team members and used **React-Bootstrap**.
- Configured a music library with **MariaDB/Node/Express** by storing videos in the file system and paths to them in the DB.

Fuud

Java, React.js, MongoDB, HTML/CSS, Spark

March 2021 – April 2021

- Built the UI for a food-based, Instagram-like web app with **React.js** — users can follow/unfollow others, make posts with media, edit profile information, save and search for restaurants, and get restaurant suggestions via a user-user algorithm.
- Connected frontend to backend for all 11 pages by retrieving data from **MongoDB** with POST requests via **Axios/Spark**.
- Devised a preliminary **Figma** prototype and created the Fuud logo as well as a GIF animation for the login page.

Google Maps Clone

Java, React.js, SQLite3, HTML/CSS, Spark

February 2021 – April 2021

- Crafted a dynamic GUI with **React** that could render a map based on a **SQLite3** database, re-render on zoom or pan, and show the shortest path between 2 input coordinates after running the K-Nearest Neighbors and A* algorithms.
- Designed and maintained a hierarchy of 30+ classes and refactored work to integrate with code from 2 team members.
- Implemented front-end and back-end caching with **Javascript** and Guava Cache, halving drawing and querying time.
- Constructed 150+ JUnit and system tests, and added a real-time user check-in service using a multi-threaded server.

SKILLS AND INTERESTS

- **Programming Languages:** Python, Scala, Java, HTML5/CSS3, Javascript, C, ReasonML, Racket
- **Technologies:** Figma, React.js, SQLite, MySQL, NoSQL, Pandas, Node.js, Express.js, MongoDB, Spark, NumPy, Linux, Git
- **Interests:** Full-stack software engineering, design, UI/UX, entrepreneurship, a cappella, spicy food, earl grey tea