

Jae-Hyun (Mason) Lee

858-306-4034 | jhmasonlee@gmail.com | [linkedin.com/mason](https://www.linkedin.com/in/mason) | masonlee.com

EDUCATION

Brown University

Sc.B in Computer Science - Applied Mathematics, GPA: 3.83

Providence, RI

Aug. 2021 – June 2025

Relevant Coursework: Data Structures & Algorithms, Machine Learning, Computational Linguistics, Computer Systems, Discrete Structures and Probability, Computational Statistics, Operations Research

EXPERIENCE

Finance Leadership Development Program Intern

Verizon

June 2023 – August 2023

Basking Ridge, NJ

- Leveraged Python and SQL queries to extract, transform, and automate complex data processes across 4 diverse databases, enhancing data accuracy and operational efficiency
- Engineered intuitive and insightful reports using GUI tool Qlik, translating funding data from device manufacturers - saved 600 hours per year across all teams involved

Applied Mathematics Teaching Assistant

Brown University

Sep. 2022 – Present

Providence, RI

- Created solution guides for homework including programming assignments in Python and graded for 250+ students weekly
- Led weekly recitation sessions, office hours, and exam review sessions for 30+ students, moderated online question forum

Software Developer, Project Lead

Brown University, SmartCane Project

Sep. 2022 – Jan. 2023

Providence, RI

- Enhanced data retrieval and presentation in an Android app by crafting a Java-based CSV parsing script to ensure accurate formatting
- Gathered requirements/specifications through user studies/interviews and documented project progress for Brown DesignXHealth

PROJECTS

Personal Website | masonlee-jhmlee.vercel.app/

- Designed and executed from scratch to create a React.js-based website - see more projects here

Expense Tracker | *MongoDB, Node, Express, React*

Aug. 2023 – Present

- Full-stack web application using MERN stack to keep track of expenses
- Created a RESTful API with Node.js and Express interfaced with NoSQL database and secured with a token-based authentication

Caching I/O | *C*

March 2023

- Developed and enhanced a caching system for reading/writing files, running with an efficiency of 29% less time than C's standard library

Wiki Search Engine | *Python*

November 2022 - December 2022

- Developed custom search engine with Python to index and query XML wikis, enabling users to search and explore XML wikis interactively
- Implemented TF/IDF term weighting and Google's PageRank algorithm to return optimized results

ACTIVITIES & LEADERSHIP

Applied Math Dept. Undergraduate Group | *Website Manager*

Jan. 2023 – Present

- Managed and updated WordPress website: serviced hundreds of users, executive board leadership of over 200 members

Meiklejohn Peer Advisor

August 2023 – Present

- Advised group of 4 first-years working closely with Brown faculty partner, provided academic and social support

Brown Pre-College | *Resident Assistant*

June. 2022 - Aug. 2022

- Planned and facilitated weekly orientation sessions and mentor group meetings for students, with an average group size of 45+ students

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, Java, SQL, Go, HTML/CSS, MATLAB, XML

Frameworks: React, Node.js, Express, WordPress

Developer Tools: Git, Docker, Mongoose, Android SDK

Libraries: Scikit-Learn, Pandas, NumPy, Matplotlib, PyTorch