

# Jae-Hyun (Mason) Lee

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## EDUCATION

### Brown University

Providence, RI

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

*Aug. 2021 – June 2025*

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

## EXPERIENCE

### Finance Leadership Development Program Intern

June 2023 – August 2023

*Verizon*

*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

Sep. 2022 – Present

*Brown University*

*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

Sep. 2022 – Jan. 2023

*Brown University, SmartCane Project*

*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

### 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