

# Jie (Jason) Ji

[jason.ji3@berkeley.edu](mailto:jason.ji3@berkeley.edu) | 415-638-7207 | Berkeley, CA | [LinkedIn](#)

## EDUCATION

### University of California, Berkeley

05/2025

Master of Engineering – Electrical Engineering and Computer Science (EECS)

GPA: 4.0/4.0

Related Coursework: Data Structures and Algorithms, Machine Learning, Computer Architecture, Computer Networking, Database System, Data Mining, NLP, Agentic LLMs, Artificial Intelligence, Data Science, Systems Programming, Linear Optimization.

### Emory University, Goizueta Business School

05/2024

BS in Computer Science, BBA in Information Systems and Operations Management

GPA: 3.9/4.0

## WORK EXPERIENCES

### Raymond James Financial

St.Petersburg, FL

Software Engineer Intern

05/2024 – 08/2024

- Designed and implemented wealth management applications backend filtering algorithm using **Java**, which was deployed to production for 15,000+ financial advisors (FA) with zero reported errors.
- Developed frontend features using **Angular (TypeScript)**, contributed to the migration of the codebase from **AngularJS** to **Angular**, and fixed critical production bugs through code reviews to increase portal click rate by 24%.
- Implemented an optimized **ETL** pipeline in **Oracle Database** to integrate over 236,000 FA data entries from 6 different data sources, achieving a 40% reduction in runtime through **SQL query optimization** and efficient data transformation.
- Deployed **Logistic Regression**, **Random Forest** and **XGBoost** to segment FAs into peer groups, achieving a 78% AUC score when predicting 822 FAs with asset growth rate exceeding 5% and pinpointing 10+ actionable insights to increase FA asset growth.

### Pony.ai

Fremont, CA

Software Engineer Intern

05/2022 – 08/2022

- Developed an algorithm (C++) using a **Support Vector Machine** to accurately classify unknown obstacles detected by autonomous vehicles (AV), resulting in optimization in road map accuracy across 200+ areas and was used by all AVs in CA for navigation.
- Collaborated with 3 interns to engineer 2 comprehensive **unit tests** for road graphs that the AV relies on using **Git** and **Jenkins**.
- The unit tests identified 150+ problematic stop lines, fixing the safety issue of AVs stopping prematurely at intersections.
- Leveraged data processing and **clustering algorithm** such as **DBSCAN** to optimize vehicle movement data processing time by 30%.

### StudyFind

Atlanta, GA

Software Developer Intern

04/2021 – 01/2022

- Developed 15+ standardized **React.js components**, using **React Router** and **Redux** to handle routing & application state.
- Redesigned and deployed the startup's team webpage (**TypeScript**) using **A/B testing**, showcasing the profiles of 30+ team members.
- Developed a web crawler (**Python**) to efficiently mine over 10,000 federal clinical trial data, optimizing data collection processes.
- Implemented an automated email marketing tool (Python), successfully driving product sales to over 1,100 researchers nationwide.

### Emory Entrepreneurship & Venture Management

Atlanta, GA

Software Developer

02/2021 – 11/2021

- Spearheaded a team of five in **Agile** for the **full stack** development (UI/UX, front end, back end) of the [HackATL2021 official website](#).
- The website of HackATL2021 attracted 400 applicants from 102 colleges in the US, representing a 180% increase in sign-up.

## SELECTED PROJECTS

### Teki-drive – [Python, React.js, RESTful APIs, Flask, Firebase, JSX, HTML&CSS]

- Developed a web application to help streamline task management, using **CI/CD pipelines** for rapid and reliable deployment.
- Architected **Flask backend APIs** for page navigation, **GET** and **POST** requests, and efficient data retrieval and storage mechanisms.
- Established front end using **React.js** and **JSX**, building features like login, profile management, user invitations, and task generation.
- Integrated and prompt engineered **OpenAI LLM** to power the app's backend for code completion and agile task management.

### Vote Vault – [TypeScript, React Native, RESTful APIs, Express.js]

- Co-founded and built a mobile app (**React Native & TypeScript**), enabling user easily access and navigate local voting information.
- Led a five-person team in an **Agile/Scrum** framework, delivering a product that was acclaimed by a **Georgia house representative**.
- Deployed **Browser Automation (Selenium)** and incorporated **RESTful APIs** (Google Civic API) to build a local election database.

### Chat App – [JavaScript, React, CSS&HTML, Firebase]

- Engineered a chat room for real-time communication using **React.js** for frontend development of responsive and interactive UI.
- Employed **Firebase** as backend database to ensure secure and reliable **data storage** for user messages and account profile.
- Implemented a robust security layer by incorporating 10+ **message filtering security rules** within Firebase to enhance user privacy.

## PROGRAMMING SKILLS

**Coding Languages:** Python, Java, JavaScript/TypeScript, SQL, C++, C, HTML&CSS.

**Frameworks/Tools:** Git, Linux, Vim, Flask, RESTful API, Node.js, React.js, Redux, React Native, Angular, Express.js, JSX, JSON, OOP, Relational Database, Jenkins, Jira, Kafka, Firebase, Google Cloud Platform (GCP), MySQL, Oracle, AWS, Confluence, Agile.

**Libraries:** PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, BeautifulSoup4, NetworkX, Selenium.