

Kai Jackson

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EXPERIENCE

Real Estate Assistant AI Inc.

San Mateo, CA

Full Stack Software Engineer

Feb 2022 - June 2024

- Built and scaled a full-stack real estate platform using **Next.js**, **TypeScript**, and **MongoDB**, reducing **load times by 20%** and enhancing security with **NextAuth authentication**. Designed a **modular architecture** with reusable components and well-structured API routes, cutting **feature delivery time by 30%**.
- Acquired paying customers and built a dedicated overseas admin team. Partnered with **Morrison Foerster**, **Bridge Bank**, **CLA**, and **Microsoft**. Brought on an advisor, the **founder of a major US brokerage**. **Led a team of 6 designers and developers**, collaborating with stakeholders to refine the product roadmap.
- Integrated **Google Maps API** for property visualization and developed a responsive UI with **Tailwind CSS**, increasing user engagement. Automated CI/CD pipelines with **GitHub Actions** and deployed on **Azure** for seamless releases.

Jackson Ventures.

Remote, CA, USA

Full Stack Software Engineer

June 2024 - Present

- Built an AI public equity model using **Python** and **Streamlit**, integrating models such as **ARIMA**, **LSTM**, **Prophet**, and a hybrid **Prophet-LSTM**. Optimized data pipelines with **pandas/numpy** and implemented **interactive visualizations** with **Plotly**, enhancing processing efficiency and user insights.
- Designed and prototyped a dynamic interface for **stock selection** and **customizable date ranges**, automated model performance evaluation with real-world scenario simulations, and conducted **unit tests** to ensure accuracy and system reliability. Optimized the company's website with **HTML/CSS/JavaScript**, reducing development and maintenance costs by **50%**.

SVCSA.

Remote, CA, USA

Full Stack Software Engineer - part time

Aug 2024 - Present

- Contributed to feature development for a full-stack application by implementing **dynamic UI components** and improving state management using **React/Next.js**. Designed and integrated **new API endpoints** with **Feathers.js** for real-time data synchronization and created **optimized MySQL database schemas** to handle complex queries efficiently. Streamlined deployment workflows through **Docker**, **Azure Kubernetes Service (AKS)**, and **GitHub Actions**.
- **Contributed to cross-stack development** by implementing **new features** for a three-tier PHP application using **ThinkPHP**, **HTML/CSS/JavaScript**, and **MySQL**, with **MAMP** for local development and testing. Refactored inefficient code into **reusable modules**, improving maintainability. Developed **automated test cases** using **Jest**, achieving 95% code coverage and reducing development cycles by 20%.

Hackathons

Nov 2023

- Achieved **First Place** at the **Girls in Tech SF Hackathon** and won the **London Design Award** by leading the development of **LightUp** a donation-enhancing app in 24 hours; conceptualized **Time Portal** a futuristic app for **GenLab.Studio's Gen AI Hack II**.

Full-Stack Projects

Sep 2022

- Developed full-stack web applications **PurrfectMatch** and **Code-a-pedia**, using the **MERN stack** (**MongoDB**, **Express.js**, **React**, **Node.js**) and **Bootstrap**. Implemented efficient **state management** with **Redux**, secured user **authentication** with **JWT**, and streamlined **API interactions** with **Apollo GraphQL**.
- Optimized performance for **frontend and backend workflows** using **Handlebars.js**, **Sequelize ORM**, and **MySQL**. Ensured robust **CRUD operations** and seamless **data exchange** with **JSON**, rigorously tested **API reliability** with **InsomniaCore**, and deployed scalable solutions on **Heroku**.

EDUCATION

University of York

York, UK

Master's Degree, Computer Science with Artificial Intelligence

Sep 2022 - Sep 2024

- Relevant Coursework: Algorithms & Data Structures, Machine Learning, Security Engineering.

UC Berkeley Extension

Berkeley, USA

Certificate in Full Stack Web Development

Jun 2022 - Dec 2022

- Focused on **MERN stack** (**MongoDB**, **Express.js**, **React**, **Node.js**), **RESTful APIs**, and **CI/CD pipelines**.