

James Bradford

650-730-3690 | jbradford@ucdavis.edu | [linkedin.com/in/jamesrbradford/](https://www.linkedin.com/in/jamesrbradford/) | github.com/jbradford55/ | www.jambradford.com

EXPERIENCE

Cozii PropTech

01/25 - Present

Software Engineer Intern

Remote (Toronto, Ontario)

- Designed and built out landing page features section using PHP, JavaScript Bootstrap and Wordpress, increasing user engagement.
- Debugged and optimized JavaScript and TypeScript code for browser and Node.js environments, ensuring seamless performance scalability.
- Built and integrated responsive UI components using React.js and Material UI, enhancing cross-device compatibility and user experience.
- Improved state management and API data fetching efficiency by utilizing Redux Toolkit and React Query, reducing data load times by 25%.
- Led peer code reviews and conducted knowledge-sharing sessions, strengthening team collaboration and maintaining code quality standards.
- Deployed and tested robust features using Jest and Cypress, ensuring application stability and reliability for production-ready deployments.

SocialTech Labs

11/24 - 01/25

Software Engineer Intern

Hybrid (New York, NY)

- Developed scalable backend systems for iOS application with Go, Python, Docker, and AWS services to enhance application functionality.
- Implemented and optimized AI image generation pipelines on the backend, leveraging the Stability API for advanced image processing.
- Architected and deployed AWS cloud infrastructure, including EC2, DynamoDB, Athena, S3, ECS, and ECR, improving system reliability.
- Developed system-wide push notification service to improve user engagement and streamline communication across the platform.
- Led a cross-functional team of developers, delegating tasks and ensuring timely delivery of features for end-to-end AI solutions.
- Streamlined analytics and reporting workflows by building advanced data pipelines using AWS Athena, enabling efficient data analysis

Headstarter AI

07/24 - 09/24

Software Engineer Fellow

Remote (San Francisco, CA)

- Built three AI-powered applications using NextJS, ReactJS, Firebase, and OpenAI integrating over five APIs to deliver robust solutions.
- Worked collaboratively with a team to optimize payment processing workflows and enhance data security, increasing transaction efficiency

Complete Solar

06/23 - 08/23

Software Engineer Intern

Yuba City, CA

- Developed a solar calculator which enabled users to receive detailed solar energy consumption forecasts with high accuracy and reliability.
- Built and maintained cloud infrastructure for solar energy solutions, leveraging AWS services to ensure scalability and reliability.
- Implemented CI/CD pipelines using Jenkins and GitHub, streamlining deployment processes and improving overall development efficiency.
- Collaborated on all stages of the software development lifecycle, from planning and design to testing, deployment, and post-deployment.

PROJECTS

SmartSolar CRM System

2024

- Developed CRM tool for managing client data, sales leads, gross revenue, and installation schedules for managers in the solar sector.
- Built with Python, Django, and JavaScript, ensuring responsive design and real-time updates for lead tracking and installation dates for users.
- Implemented search and email functionality, hosted on an AWS EC2 instance and RDS (PostgreSQL) instance for backend database storage.

Aggie AI

2024

- Developed an AI-powered chatbot using NLP and retrieval augmented generation to assist students in finding UC Davis information.
- Scraped Rate My Professor data for real-time text-based interactions, voice recognition, and speech synthesis to enhance user engagement.
- Developed a fully responsive user interface using Material-UI and Next.js and utilized a pinecone database for indexing.

EDUCATION

University of California, Davis

Expected Graduation: June 2025

Bachelor's of Engineering in Computer Science

Relevant Coursework: Algorithm Design & Analysis, Data Structures, Machine Learning, Object-Oriented Programming, Artificial Intelligence, Probability & Statistical Models for CS, Computer Architecture, Computer Graphics, Geometric Modeling, Operating Systems

SKILLS

Languages & Frameworks: Python (Flask, Django, FastAPI), SQL, JavaScript (WebGL, React), C, C++, HTML, CSS, MATLAB.

ML & AI: Torch, Sklearn, Tensor Flow, GPU/TPU Optimization, NLP, Reinforcement Learning

Databases & Pipelines: PostgreSQL, AWS RDS, Microsoft SQL, SQLAlchemy, MongoDB, Web Scraping, Joins, ETL, Spark.

Cloud & DevOps: AWS (EC2, RDS, Lambda, ECS), Nginx, Docker, Parallel Processing, Memory & CPU code optimization.

Web Development & Graphics: Flask, Django, React, WebGL, OpenGL, User Authentication, Data Visualization.

Version Control & Collaboration: Git, Project Management & Deployment, Teamwork, Trello, Slack, Conflict Resolution, Communication.