James Bradford

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EDUCATION

University of California, Davis   **Expected Graduation: June 2025**
Bachelor's of Science, Computer Science (GPA: 3.6)   *Davis, CA*

RELEVANT COURSEWORK

- Data Structures & Algorithms, Software Engineering, Deep Learning, Computer Architecture, Object-Oriented Programming in C++, Artificial Intelligence, Operating Systems, Machine Programming & Computer Organization

SKILLS

- **Programming:** Python, C, C++, R, JavaScript, SQL
- **Technologies:** AWS, GCP, LangChain, MySQL, PostgreSQL, AWS, Next.js, React, Bootstrap, Git, OpenAI, Django
- **Certifications:** Amazon Web Services Cloud Practitioner (Issued - 2024)

EXPERIENCE

Headstarter AI   **07/24 - 09/24**
Software Engineering Fellow   *Virtual*
- Developed 3 AI-driven applications using NextJS, ReactJS, Firebase, and OpenAI, and integrated 5+ APIs with AWS, resulting in 30% faster scalability and improved user experience.
- Collaborated with elite fellows on projects to implement solutions that streamlined payment processing and improve data security, resulting in a 30% improvement in transaction efficiency and a 25% reduction in security incidents.

CMPLT Solar   **06/23 - 08/23**
Software Engineer Intern   *Yuba City, CA*
- Developed and maintained cloud infrastructure for our solar energy solutions using AWS services
- Implemented CI/CD pipelines with Jenkins and GitHub to streamline deployment processes and improve efficiency.
- Participated in the full software development lifecycle, from planning and design to deployment and maintenance.

PROJECTS

SmartSolar CRM System   **2024**
- Developed Customer Relation Management tool for managing client data, sales leads, and installation schedules in the solar sector. Built with Python, Django, and JavaScript, ensuring responsive design and real-time updates for lead tracking and installation dates, including search and email functionality, hosted on an AWS EC2 instance and RDS instance for backend database storage.

FlashSmart AI   **2024**
- Developed an AI-powered flashcard generation tool to automatically create educational flashcards from user-provided text. Integrated the application with Firebase for backend storage and implemented a user authentication system using Clerk. Responsive UI built with Next.js and Material UI, ensuring a seamless user experience across devices.

Aggie AI   **2024**
- Developed an AI-powered chatbot that helps students find UC Davis Computer Science professors and course reviews using natural language processing (NLP). Scraped data from Rate My Professor and integrated OpenAI's GPT for text embeddings and real-time interaction, along with voice recognition and speech synthesis features. Implemented a responsive user interface with Material-UI and Next.js, utilizing UC Davis branding for a personalized experience.

LINKS

Interactive Web Resume   www.jambradford.com
LinkedIn   www.linkedin.com/in/jamesrbradford/
Github   www.github.com/jbradford55