

DAVID SONG

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EDUCATION

San José State University

San José, CA

B.S., Computer Science

Expected Graduation - Dec 2025

- **Relevant Coursework:** Artificial Intelligence, Machine Learning, Data Science Senior Project, Software Engineering, Object-Oriented Design, Operating Systems, Data Structures & Algorithms, Python Data Analysis, Big Data Processing, Database Systems, Information Security, Programming Paradigms, Data Visualization

EXPERIENCE

Headstarter AI, Software Engineer Fellow

Jul 2024 - Aug 2024

- Built and updated React.js components (form elements, loading states), contributing to 3 bug-free weekly releases
- Attended workshops on AI tools and AWS/GCP and applied concepts to group projects to improve deployment reliability
- Participated in Git-based code reviews, testing small Node.js/Express.js changes to ensure stable weekly releases

Life Stages, Software Engineer Intern

May 2024 - Jul 2024

- Debugged and tested login/signup APIs (Node.js, PostgreSQL, JWT/OAuth), reducing user-reported authentication errors by 40%
- Authored and organized REST API documentation, enabling smoother backend adoption by teammates
- Collaborated with frontend developers to fix 12+ layout issues, improving responsiveness across React.js + mobile web

PROJECTS

Zaiku | [GitHub](#)

Jan 2025 - Apr 2025

- Implemented secure login/session features with JWT and Google OAuth, ensuring strong authentication for users
- Integrated Elastic Search for scalable, fast queries across multiple content types
- Organized backend routes in Node.js/Express.js, adding tests to catch common issues during development

PromptWave | [GitHub](#)

Aug 2024 - Oct 2024

- Built chatbot frontend in React.js, enabling switching between multiple Hugging Face API models
- Reduced response latency using Redis caching and async functions, improving real-time performance
- Debugged backend routes to ensure messages were processed correctly through Express.js APIs

HydroSense | [GitHub](#)

Oct 2023 - Nov 2023

- Developed IoT dashboard with React.js + Node.js, displaying real-time sensor data for water monitoring
- Integrated Google Sheets API for external data export and analysis
- Improved dashboard layout for cross-device usability (desktop, tablet, mobile)

SKILLS

- **Languages:** JavaScript (ES6+), Python, Java, SQL
- **Backend & APIs:** RESTful APIs, Microservices, Authentication (JWT, OAuth)
- **Databases:** PostgreSQL, MongoDB, MySQL; indexing/search with Elastic Search
- **Cloud & Infrastructure:** GCP, Firebase, Kubernetes, Git (CI/CD, version control)
- **Networking & Systems:** Information Security fundamentals, API scalability, caching with Redis