David Song

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EDUCATION

San José State University   San José, CA
B.S., Computer Science   Expected Dec 2025
- **Relevant Coursework:** Object-Oriented Programming, Operating Systems, Data Structures & Algorithms, Database Management Systems, Artificial Intelligence, Machine Learning, Formal Languages, Information Security, Programming Paradigms

EXPERIENCE

Headstarter AI, Software Engineer Fellow   Jul 2024 - Aug 2024
- Developed and contributed to a team project creating an inventory tracking tool utilizing Firebase for backend data storage and React.js for frontend UI
- Implemented a chatbot using AWS Bedrock models and configured deployment on an AWS EC2 instance following infrastructure best practices
- Collaborated in DevOps meetings and tested Jenkins CI/CD pipelines, gaining experience with Git-based workflows in a production environment
- **Tech Stack**: JavaScript, React.js, Firebase, AWS (EC2, Bedrock, IAM), Git, GitHub, CI/CD

Life Stages, Software Engineer Intern   May 2024 - Jul 2024
- Designed and developed RESTful API endpoints using Node.js and Express.js to capture user engagement metrics for analytics dashboard implementation
- Participated in DevOps meetings and tested deployment scripts, gaining knowledge of CI/CD workflows and version control practices
- Troubleshooted and fixed 8 bugs in the API codebase and created documentation for backend services under senior developer mentorship
- **Tech Stack**: Node.js, Express.js, RESTful APIs, Git, Jenkins, API Development

PROJECTS

Zaiku | https://github.com/hanbit0218/zaiku.git | https://www.zaikuofficial.com/   Jan 2025 - Apr 2025
- Built a full-stack e-commerce platform using React, Node.js/Express, and MongoDB with secure JWT authentication system implementation
- Implemented responsive UI components including shopping cart with localStorage persistence, Elastic Search-based product suggestions, and Stripe-integrated checkout process
- Designed RESTful APIs for user management, product catalog, and order processing with Axios HTTP client and context-based state management
- **Tech Stack**: React.js, JavaScript (ES6+), Node.js, Express.js, MongoDB, Mongoose ODM, JWT Authentication, Google OAuth, RESTful API, Context API, Elastic Search

PromptWave | https://github.com/hanbit0218/promptwave | https://promptwave-frontend.vercel.app/   Aug 2024 - Oct 2024
- Created a React-based chatbot application that integrates Hugging Face AI models, enabling users to interact with 3 different language models
- Built a responsive user interface with styled-components for seamless cross-platform experience on mobile and desktop devices
- Configured an Express.js backend with Redis caching to handle API communication, maintaining conversation history for context-aware responses
- **Tech Stack**: React.js, Node.js, Express.js, Hugging Face API, styled-components, React Router, Vercel, Redis Cache

HydroSense | https://github.com/hanbit0218/HydroSense.git   Oct 2023 - Nov 2023
- Led a frontend team of 5 developers in building an IoT-based dashboard for SJSU Community Garden's soil moisture monitoring system
- Developed React components to visualize sensor data, integrating Google Sheets API for environmental data export and analysis functionality
- Created 3 informational pages using Next.js and Tailwind CSS with responsive design for optimal user experience across mobile and desktop devices
- **Tech Stack**: Next.js, React.js, JavaScript, Tailwind CSS, Firebase, Google API, IoT, Data Visualization

SKILLS

- **Programming Languages:** JavaScript (ES6+), TypeScript, HTML5/CSS3, Python, Java, SQL (PostgreSQL, MySQL)
- **Frameworks & Libraries:** React.js, Node.js, Express.js, Next.js, Firebase, MongoDB/Mongoose, JWT, Redux/Context API, styled-components, Tailwind CSS, Hugging Face Transformers, OAuth 2.0, React Router, Axios, Jest
- **Infrastructure & DevOps:** Git (feature branching, PR workflows), GitHub Actions, RESTful API design, AWS (EC2, Bedrock, IAM), MongoDB Atlas, Firebase, Vercel, Jenkins, Google Cloud APIs, Agile/Scrum methodology