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, Database Management Systems, Artificial Intelligence, Machine Learning, Formal Languages, Information Security, Programming Paradigms

EXPERIENCE

Headstarter AI, Software Engineer Fellow Jul 2024 - Aug 2024

- Designed and deployed a scalable inventory-management backend system using Firebase and Next.js, increasing inventory tracking efficiency for small businesses
- Developed an AI-powered chatbot leveraging AWS Bedrock API and deployed it on AWS EC2, enhancing user engagement by 30%
- Streamlined feature delivery by adopting Agile methodologies, improving team collaboration and reducing delivery time
- **Tech Stack**: Python, Node.js, Firebase, AWS EC2, Git, GitHub

Life Stages, Software Engineer Intern May 2024 - Jul 2024

- Engineered RESTful APIs in Node.js and Express.js to analyze user behavior, improving content personalization and retention rates by 20%
- Collaborated with DevOps engineers to implement CI/CD pipelines, reducing deployment errors by 30%
- Supported backend services that facilitated seamless data communication across platforms
- **Tech Stack**: Node.js, Express.js, RESTful APIs, Git, CI/CD

PROJECTS

Sales Forecast | https://github.com/hanbit0218/sales_forecast.git Feb 2024 - Mar 2024

- Built a sales forecasting model using Python and Scikit-learn, achieving a 10% improvement in RMSE
- Processed and engineered time-series data to enhance model accuracy, optimizing inventory management
- Assessed model performance using MAE and RMSE to ensure reliability
- **Tech Stack**: Python, Pandas, NumPy, Scikit-learn

Energy Dashboard | https://github.com/hanbit0218/energy_dashboard.git Nov 2023 - Dec 2023

- Designed a backend solution to process 3,000+ energy data entries, enabling real-time forecasting and analytics
- Integrated machine learning models to project future energy consumption trends
- Enhanced usability and performance through user feedback and optimization
- **Tech Stack**: Python, SQL, TensorFlow

Hydro Sense | https://github.com/hanbit0218/HydroSense.git Oct 2023 - Nov 2023

- Developed an IoT-based dashboard for real-time soil moisture monitoring, enhancing user navigation by 40%
- Designed both frontend and backend components, enabling real-time analytics through seamless data transmission
- Improved accuracy of sensor data analytics by 80%, benefiting precision agriculture
- **Tech Stack**: Next.js, React, Node.js, Firebase

SKILLS

- **Programming:** Python, Java, SQL, C++
- **Backend Frameworks:** Node.js, Express.js, Django, Spring Boot
- **Databases:** MySQL, MongoDB
- **DevOps:** CI/CD, Docker, Git, GitHub
- **Platforms:** Linux, UNIX, Windows