

JAEHEE JUNG

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EDUCATION

California State University - Sacramento, Sacramento, CA
Bachelor of Science (B.S.) in Computer Science
Minor in Geographic Information Science (GIS)

Expected Graduation: May 2026
GPA: 3.345

• Relevant Coursework: Database Management Systems, Computer Software Engineering, Data Structures & Algorithms, Computer Organization, Object-Oriented Computer Graphics Programming, Probability & Statistics

Sierra College, Rocklin, CA
Associate of Science (A.S.) in Natural Science (Computer Science Focus)
Graduated: Dec 2023
GPA: 3.91

• Relevant Coursework: Introduction to Unix/Linux, System Programming with C

PROJECT EXPERIENCE

Dockerized CRUD Application | Web Development/Database Management November 2024 - Current

- Developed web application prototype using FastAPI, MySQL, and Docker for data management and cross-platform deployment
- Replaced PHP architecture with Python FastAPI framework to reduce development complexity and improve code maintainability

Pickleball Go | Startup Challenge & Product Development March 2025

- Contributed to a 6-person team, primarily composed of experienced business professionals, in a 3-day startup challenge, developing a Pickleball matching application prototype and designing user interfaces (UI) in Figma
- Gained practical experience in data-driven business planning and customer validation, leveraging insights from 60 customer surveys and 5 iterations to identify market needs and secure 20 beta sign-ups

AI Sleep Recommendation | Hornet Hack Data Science/Machine Learning Project March 2025

- Led a 6-person team at Sacramento State University Hornet Hack to develop a linear regression model prototype for a lightweight sleep health prediction application, utilizing Python and a Kaggle dataset
- Conducted comprehensive data analysis and model evaluation, achieving an R^2 score of 0.97 (high accuracy) and an average prediction error (MAE) of 0.18, demonstrating robust predictive modeling skills

Text Embedding-Based Item Recommendation | TikTok Hackathon AI Project July 2024

- Supported a 4-member development team building a text-based recommendation system using OpenAI embeddings and Pinecone vector database with cosine similarity algorithms to analyze product data and match similar items
- Created the GitHub repository, wrote setup documentation, and managed code integration, enabling streamlined team communication and testing processes

Binary Search Tree Implementation | Data Structures April 2024

- Developed a tree-based data structure in C++ using Object-Oriented Programming and custom node classes to automatically sort and organize data in a tree format for efficient searching
- Conducted performance testing comparing tree search versus linear search methods, achieving 5 times faster data retrieval while implementing ASCII tree visualization for debugging and analysis

Budgeting App | Data Management & Automation November 2023

- Collaborated with 2 teammates to implement a budgeting application on Linux, utilizing BASH for transaction input, SQLite for secure data storage, and Python for efficient information processing and organization
- Automated data organization workflows to enhance the app's usability and created clear, user-friendly summaries, showcasing solid data management and reporting capabilities

WORK, LEADERSHIP, AND EXTRACURRICULAR ACTIVITIES

Events Committee Member, Society of Hispanic Professional Engineers(SHPE) February 2025 - Current

- Chosen for Events Committee budgeting position to implement systematic expense tracking and deliver comprehensive financial reports supporting event planning

Warehouse Associate (Temporary), Coupang, South Korea May 2021 - Dec 2023

- Built a reputation for reliability by efficiently processing 200+ items and sorting 1000+ packages daily, contributing to smooth warehouse operations

Convenience Store Clerk, 7-Eleven, South Korea February 2020 - August 2020

- Delivered consistent service quality and operational standards while handling 35+ customer transactions daily

TECHNICAL SKILLS

Java, Python, SQL (MySQL, SQLite), FastAPI, RESTful API, Docker, Git, Linux/Unix, Agile, Jira, C++, C, OOP, Bash