JAEHEE JUNG

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EDUCATION

Bachelor of Science (B.S.) in Computer Science
California State University - Sacramento, Sacramento, CA **Expected Graduation: Dec 2025**
GPA: 3.8; Dean's List: Spring 2024 - Present
Relevant Coursework: Database Management Systems, Data Structures & Algorithm Analysis, Computer Software Engineering, Computer Organization, Number Theory
Sierra College, Rocklin, CA **Graduated: Dec 2023**
GPA: 3.9; President's Honor Roll: Fall 2020 - Fall 2023
Relevant Coursework: System Programming with C, Introduction to Unix/Linux

TECHNICAL SKILLS

SQL(MySQL, SQLite), Python, FastAPI, C++, Java, C, UNIX/Linux, GitHub, Docker

PROJECT EXPERIENCE

Dockerized CRUD Application **November 2024 - Current**

- Created a user-friendly web application that lets people organize datasets by adding, viewing, editing, or deleting information, using FastAPI to handle the behind-the-scenes processing and entries and MySQL to store the data.
- Packaged the application into a portable format using Docker to run seamlessly on any computer without extra setup.
- Made it easier to update and fix the application by organizing it into containers, reducing technical issues during deployment.

Text Embedding-Based Item Recommendation **July 2024**

- Designed a system that suggests items to users by understanding the meaning of product descriptions, using OpenAI's tools and Pinecone to organize the data.
- Built a smooth connection between the system and users with Python and FastAPI for data handling and React for a user-friendly interface.
- Teamed up with members on GitHub to organize project files and conduct extensive testing for the system functionality.
- Delivered a functional prototype that demonstrated the potential of advanced algorithms to enhance user experiences.

Binary Search Tree Implementation **April 2024**

- Developed a binary search tree data structure in C++ to store and retrieve data using a custom node class efficiently.
- Implemented core functionalities including adding, searching, and traversing nodes in multiple orders (e.g., in-order traversal).
- Added an ASCII art visualization of the tree to aid debugging and educational demonstrations.

Budgeting App **November 2023**

- Co-developed a budgeting app to help users easily track their record of spending and manage their account info.
- Used BASH to allow users to input their transactions, SQLite to store the data securely, and Python to process and organize the information.
- Improved the app's usability by automating data organization workflows and creating clear, easy-to-understand summaries.

WORK & EXTRACURRICULAR ACTIVITIES

Society of Hispanic Professional Engineers (SHPE) **January 2024 - Current**

- Collaborated with a team during a 7-day hackathon to conceptualize and design a software solution, addressing technical challenges and presenting a detailed proposal to judges.
- Attended networking events to connect with industry professionals and gain insights into computer science careers.

Warehouse Associate (Temporary), *Coupang, South Korea*

- Operated conveyor belt systems to sort packages accurately and transported inventory efficiently while ensuring workplace safety by adhering to strict protocols.

Sierra College Computer Science Club **August 2023 – December 2023**

- Participated in the Sierra College Programming Exhibition, using C++ to solve advanced data structure and algorithm challenges independently.

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

- Managed cash registers, organized inventory, and ensured compliance with promotional pricing while providing quality customer service.