JAEHEE JUNG

jjung1469@gmail.com | (916) 622-9634 | Sacramento, CA | www.linkedin.com/in/ju96 | https://github.com/jjung9648

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, Number Theory, Computer Software Engineering, Computer Organization
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

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TECHNICAL SKILLS
Python, SQL(MySQL, SQLite), FastAPI, Docker, Git, Agile Software Development, Java, C++, C, Linux/Unix

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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, implementing MySQL queries for data retrieval and FastAPI and Python for real-time data access.
- Packaged the application into a portable format using Docker to run seamlessly on any computer without extra setup.
- Reduced deployment failures and ensured consistent data access by containerizing the FastAPI backend and MySQL database, minimizing configuration inconsistencies.

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 (BST) in C++ using OOP principles, implementing a custom node class for efficient data storage and retrieval.
- 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 on Linux to help users easily track and manage their record of 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 on designing an AI-powered content feed system for decentralized social media, overcoming challenges, and earning positive feedback in a 7-day hackathon.
- 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.