Ian Jiang

(669) 295-8675 | jiangjs03@gmail.com | LinkedIn | GitHub | Protfolio

EDUCATION

University of Illinois Urbana-Champaign | Champaign, IL **2025-2026(Expected Graduation)**
Master of Computer Science

San José State University | San Jose, CA **2021-2025**
B.S. in Computer Science | *GPA: 3.7/4.0* Dean's Scholar Computer Science Department | Cum Laude

AI & ML: Advanced topics in Natural Language Processing, Applied in Machine Learning, Artificial Intelligence	Core CS Courses: Data Structures and Algorithms, Software Engineering, Object-Oriented Design
System & Databases: Database Management Systems, NoSQL Database Systems	Other: User Interface Design, Information Security, Operating Systems,

TECHNICAL SKILLS

Web Development: Node.js, Next.js, NextAuth, JavaScript, CSS
Languages: C++, C, SQL, Assembly, MIPS **Databases:** PostgreSQL, MongoDB, MySQL, AWS

RELEVANT EXPERIENCE

TRIPALINK | Los Angeles, CA **Aug. 2023**
Software Engineer

- **Designed and Implemented a New API** to process apartment rental applications, enhancing functionality for an AI-driven rental recommendation project using **Java**, **Python**, and **GraphQL**.
- Led the successful rollout of Management System Software V1.0 with the Chicago team, ensuring seamless implementation and system functionality with React.js, Springboot, and Maven.

CollegeBot.AI | San Jose, CA **Oct. 2023**
Co-founder | *AI Model Engineer*

- **Co-founded** a venture that launched **Collegebot.ai**, an AI language model that attracted a rapidly growing user base of over 10,000 students within the first eight months by simplifying access to university resources.
- **Developed and executed the model's training strategy** using **Pytorch**, **TensorFlow,** and **CUDA**, focusing on natural language understanding to accurately interpret university policies and academic programs, resulting in a highly reliable and efficient solution for users.

PERSONAL PROJECTS

End-to-End AI Model Development **June. 2023**

- Engineered and deployed an end-to-end AI language model, fine-tuning the **LLaMA-3-8B** model with **SFTTrainer** and **Transformers** to deliver advanced NLP capabilities for coding generation.
- **Optimized model efficiency by 40%** by implementing Low-Rank Adaptation (**LoRA**) and 4-bit quantization, **reducing computational costs** and accelerating inference speed.

Deep Learning System for Sign Language Recognition(BO+CNN+LSTM) **June. 2025**

- Architected and developed a full-stack deep learning pipeline for sign language recognition, leveraging a **CNN-LSTM** architecture with a **MobileNetV2** backbone using **Keras** to process the **How2Sign** video dataset.
- **Boosted model performance by 25%** by automating hyperparameter tuning with Bayesian Optimization (using **Optuna**) to identify optimal learning rates and dropout configurations.
- **Enhanced model accuracy and efficiency** through a two-stage "freeze-then-finetune" transfer learning strategy, outperforming two other comparative models in a comprehensive analysis.