Jiasheng Huang

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Education

Santa Clara University Santa, CA

Bachelor of Science in Computer Science and Engineering *September. 2023 – June 2027*

Relevant Coursework: Advanced Data Structures, Software Engineering, OOP, Theory of Algorithms, OS, Machine Learning and Data Mining (e.g., regression, classification, clustering), Artificial Intelligence, Web Search and Information Retrieval

Projects

Underwriting Copilot | *Next.js, TypeScript, Tailwind CSS, Python, FastAPI* | GitHub Link 2025 – Present

- Built an underwriting workflow MVP that streamlines KYB/KYC submission, document collection, and case review for brokers and business owners
- Developed a Next.js and TypeScript submission portal for structured business information intake and document uploads
- Created an underwriter console that consolidates submitted data, missing fields, uploaded documents, and decision evidence into a single case view
- Designed review workflows to reduce manual email tracking and improve underwriting triage efficiency in demo scenarios

Course Planning Agent | *Python, FastAPI, LangChain, RAG, Vector Search* | GitHub Link 2025 – Present

- Built a Retrieval-Augmented Generation course planning assistant using LangChain, ChromaDB, and FastAPI
- Developed a PDF ingestion pipeline for parsing, chunking, embedding generation, and vector indexing across 100+ catalog documents
- Implemented agent-based tools for course information retrieval, prerequisite validation, and stateful multi-step query handling
- Improved planning usability by consolidating course lookup, prerequisite checks, and exploratory schedule planning into one AI-assisted workflow

Fitness Tracker | *React, Node.js, Express, PostgreSQL, JWT, Vercel, Render, Neon* | GitHub Link 2025 – Present

- Built a full-stack nutrition tracking web app to replace ad-heavy fitness apps, reducing personal meal logging time by approximately 50%
- Developed responsive React dashboards for meal entry, daily macro summaries, date-based filtering, and progress tracking
- Designed relational PostgreSQL schemas and REST APIs to manage users, meals, nutrition records, and daily analytics
- Implemented JWT and bcrypt authentication with protected Express routes for user-specific data access
- Deployed the application end-to-end using Vercel, Render, and Neon, improving production reliability with timeout handling and retry logic

Face Recognition Architecture Comparison | *Python, PyTorch, NumPy* | GitHub Link 2024 – 2025

- Built an end-to-end machine learning pipeline to train and evaluate ResNet18 and ViT models for face recognition
- Implemented data preprocessing, GPU-aware training workflows, and modular evaluation pipelines
- Analyzed model performance using accuracy metrics, confusion matrices, and confidence visualization
- Compared CNN and Transformer architectures to study trade-offs relevant to deployment scenarios

Technical Skills

Languages: Python, Java, C/C++, SQL (PostgreSQL), JavaScript, HTML/CSS
Frameworks: React, Node.js, Express, FastAPI
Machine Learning: PyTorch, TensorFlow, NumPy, Pandas, Scikit-learn, Model Evaluation, Information Retrieval, RAG, LangChain,Vision Transformer (ViT) Architecture, Resnet18
Databases & Cloud: PostgreSQL, AWS (S3, Bedrock)
Developer Tools: Git, Linux/Unix, Windows, Cursor, Claude Code, GitHub Copilot, VS Code, PyCharm, CI/CD