Guanghan Li

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EDUCATION

Santa Clara University — Santa Clara, CA
Bachelor of Science in Computer Science (GPA: 3.9/4.0) — *Expected Dec 2025*
- Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming (C++), Web Development, Database Systems, Software Engineering, Machine Learning, Web Mining

EXPERIENCE

AI Solutions Intern — Jun. 2025 – Aug. 2025
Hi-Think Corporation — *Liaoning, China*
- Architected and deployed scalable **sentiment analysis system** processing **240,000+ feedback entries**, achieving **97.3% classification accuracy** using **FastAPI microservices** with **RESTful endpoints** and **JWT authentication**
- Engineered modular **data processing pipelines** with **Python** (Pandas, LangChain) enabling **real-time querying** across **20+ dimensions** through **GraphQL APIs** with optimized query resolvers
- Built interactive **analytics dashboards** with **Plotly** and **JavaScript**, integrating backend services via **REST APIs** to visualize organizational trends and **correlation analysis** with real-time data updates
- Implemented **low-code AI workflow automation** using **n8n** with **Docker containerization** and **CI/CD pipeline**, reducing manual reporting time by **85%** and deployed on **AWS EC2**

Data Engineer Intern — Jan. 2025 – May. 2025
Santa Clara University — *Santa Clara, CA*
- Developed **ETL pipelines** using **Python** to process **GPS tracking data** from Catapult sensors, extracting athlete performance metrics including **acceleration**, **velocity**, **heart rate**, and **player load** with data validation and cleansing workflows
- Built **full-stack analytics platform** with **Python backend** (Flask) and interactive **web dashboards** using **Matplotlib**, **Seaborn**, and **JavaScript** to visualize athlete workload, fatigue trends, and performance metrics across training cycles
- Implemented **predictive modeling service** using **Scikit-Learn** (Decision Trees, Random Forest) with **RESTful API endpoints** to deliver real-time readiness score predictions, contributing to **20% injury reduction** over the season
- Designed **PostgreSQL database schema** for efficient time-series data storage and implemented **automated data ingestion** workflows with error handling and logging for continuous monitoring

PROJECTS

Full-Stack Real Estate Analytics Platform | *Python, JavaScript, React, FastAPI, PostgreSQL* — Mar. 2025 – Jun. 2025
- Designed end-to-end **web application** integrating **web scraping** (Selenium, BeautifulSoup) to extract **1000+ property listings**, **RESTful API backend** with **FastAPI**, and responsive **React frontend** with interactive visualizations (**Chart.js**, **D3.js**) for real-time market analysis
- Implemented **data preprocessing pipelines** using **Pandas** for feature engineering and **association rule mining**, optimized **ML ensemble models** (Random Forest, XGBoost) through **hyperparameter tuning**, improving R^2 **from 0.56 to 0.89**, and deployed as **containerized Docker service**

NFT Marketplace Platform | *PHP, JavaScript, HTML/CSS, MySQL, Solidity, Web3.js* — Ongoing
- Collaborating with team of 3 to develop **decentralized NFT marketplace** using **vanilla PHP backend** with **MVC architecture**, implementing **smart contracts** in **Solidity** for **NFT minting**, trading, and **royalty distribution** with comprehensive testing using Hardhat
- Building **RESTful APIs** with **PHP** to integrate blockchain data via **Web3.js**, managing off-chain metadata in **MySQL**, implementing **JWT authentication**, and designing **responsive UI** with **HTML/CSS/JavaScript** following **WCAG accessibility standards**

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C++, SQL, HTML/CSS, PHP, TypeScript
Web Technologies: React, Node.js, Express, FastAPI, GraphQL, RESTful APIs, WebSockets, JWT Authentication
Databases: PostgreSQL, MySQL, MongoDB, Redis, SQLAlchemy
Cloud & DevOps: AWS (EC2, S3, Lambda, RDS), Docker, Git, GitHub, CI/CD, Nginx
Tools & Frameworks: Selenium, BeautifulSoup, Pandas, NumPy, Matplotlib, Seaborn, Web3.js, Solidity
Machine Learning: Scikit-learn, TensorFlow, PyTorch, XGBoost, Model Deployment, ETL Pipelines