QIYUAN (SAM) SUN

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Full Working Rights in Australia • Available for Immediate Relocation

Education

The University of Sydney   *Sydney, NSW, Australia*
Bachelor of Advanced Computing & Bachelor of Commerce   2025
Computer Science and Business Information Systems
Grade: Distinction

Technical Skills

Languages	Python, C/C++, Java, JavaScript/TypeScript, SQL, Kotlin, HTML/CSS, LaTeX
Frameworks	React, Node.js, Express, TensorFlow, PyTorch, Android SDK, Spring Boot, Django
Expertise	Machine Learning, Deep Learning, NLP, Computer Vision, Full Stack Development
Tools	AWS, Docker, Git, MongoDB, PostgreSQL, Agile/Scrum, CI/CD, Kubernetes

Professional Experience

AI Cadet   *Guangzhou YaGao Digital Technology Co., Ltd*
December 2024 – February 2025 | China

▷ **Re-engineered ML pipeline architecture, identifying critical data leakage that eliminated overfitting issues**
▷ **Achieved 88% accuracy in stock index trend prediction with R^2 of 0.98 for volume change metrics**
▷ **Delivered 68% test accuracy in complex 20-class categorical classification system**
▷ *Technologies: Python, TensorFlow, Quantaxis, Node.js, Advanced Hyperparameter Optimization*

Projects, details and more projects viewable in my portfolio website

Full Stack Portfolio Website   Jul 2025 – Present 🔗
React/Node.js application with animated UI, interactive galleries, video integration, and automated CI/CD

Sketch My Hair Android Application   Mar 2025 – Present 🔗
Kotlin-based creative tool featuring AI-powered style generation, custom drawing canvas, and context-aware navigation

Quantitative Stock Metric Prediction Model   Jun 2024 – Present 🔗
LSTM-powered algorithmic trading Model for market analysis, risk management, and automated reporting capabilities

Real-time Exchange Rate Predictor   Jul 2021 – Present 🔗
AUD-CNY prediction system evolved from linear regression to LSTM, achieving 45% accuracy improvement

Multiple Choice Question Generator   Feb 2023 – Present 🔗
React application leveraging LLM APIs for intelligent MCQ generation with duplicate prevention algorithms

Featured Academic Projects

Energy Consumption Prediction with Transformers   Jun – Dec 2024 🔗
Led capstone research as sole ML expert, authored 98% of 50-page paper on novel transformer/DistilBERT methods

MERN Stack Shopping Website   Mar – Jun 2025 🔗
Architected 70% backend and 90% frontend with comprehensive testing framework and production deployment

Sketch-Based Image Retrieval System   Mar – Jun 2025 🔗
Pioneered deep learning model achieving 0.99 Hit@1 score for hairstyle retrieval with custom CNN architecture

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Research Interests: Machine Learning • Computer Vision • Generative AI • System Architecture