

# QIYUAN (SAM) SUN

✉ qiyuansunsam@gmail.com 📞 +61 404208578 🌐 Portfolio 🐙 GitHub 🌐 LinkedIn

Full Working Right, Available for Immediate Relocation, Sponsorship Not Necessary

## Education

The University of Sydney

Sydney, NSW, Australia

Bachelor of Advanced Computing & Bachelor of Commerce

2025

Computer Science and Business Information Systems

Grade: Distinction

Skills: Cloud, Web Dev, Python, C++, Java, SQL, LATEX, HTML, CSS, JavaScript, Kotlin, ML

## Experience

Software Engineering/Machine Learning Intern

Guangzhou YaGao Digital Technology Co., Ltd

December 2024 – February 2025 | China

Company Wiki (In Chinese)

- ▷ 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

Freelance Developer

Upwork & Fiverr

March 2025 – Present | Remote

- ▷ Portfolio Websites • Custom AI Models • AI Integrations

## Projects, details and more projects viewable in my portfolio website

Portfolio Website

Jul 2025 – Present 🔗

React/Node.js application with animated UI, interactive galleries, video integration, and automated CI/CD

SkillFoundry - Hackathon Project

Aug 2025 – Aug 2025 🔗

React/Flask application with AI-powered evaluation, video processing, automated ranking, and feedback systems

Sketch My Hair Android Application

Mar 2025 – Present 🔗

Kotlin-based creative tool featuring AI-powered style generation, custom drawing canvas, and context-aware navigation

Certificate Generator System

Jun 2025 – Jul 2025 🔗

Automated certificate generation platform with template management and batch processing capabilities

Quantitative Stock Metric Prediction Model

Jun 2024 – Dec 2024 🔗

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 – Jul 2025 🔗

React application leveraging LLM APIs for intelligent MCQ generation with duplicate prevention algorithms

## Featured Academic Projects

Energy Consumption Prediction with Transformers Research Paper

Jun 2024 – 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 2025 – Jun 2025 🔗

Architected 70% backend and 90% frontend with comprehensive testing framework and production deployment

Sketch-Based Image Retrieval System

Mar 2025 – Jun 2025 🔗

Pioneered deep learning model achieving 0.99 Hit@1 score for hairstyle retrieval with custom CNN architecture

AWS Caption Generation System

Mar 2025 – Jun 2025 🔗

EC2 Auto Scaling, Lambda functions with Gemini AI, RDS, S3, and event-driven architecture

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