Kierann Chong

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Education

University of California, Irvine — California

BSc in Computer Science, Sophomore, GPA: 3.92 — Expected graduation: May 2027

Technical Skills

Coursework: Supervised Machine Learning, Advanced Learning Algorithms (DeepLearning.AI)

Languages: Python, Pandas, Tensorflow, Gensim, LangChain, Yfinance, Huggingface, C++, SQL, HTML

Machine Learning Algorithms: Classification, Neural Networks, Text Embedding, Clustering

Tools: AWS (Bedrock, Glue, Lambda, DynamoDB, S3 Bucket), GCP (Cloud functions, VertextAI), Sharepoint, PowerApps, Git

Internships

Chatbot Developer Intern |*RenalWorks Pte Ltd, Malaysia* — July 2024-September 2024
- Collaborated to develop a Claude 3 chatbot with SQL data retrieval and token tracking with LangGraph API, AWS DynamoDB and AWS Bedrock.
- Innovatively optimized SQL query process for 500% less token usage, enabled SQL function

Data Scientist Intern |*Ascentis CRM, Singapore* — February 2024-July 2024
- Analyzed, prepared, researched and trained a text-based classification algorithm on 2 million data entries using AWS Glue and S3 Bucket.
- Solved the optimization problem for algorithm to process 7 million data entries in 15 minutes with 80% accuracy.

Personal Projects

ResGit |*Flask, AWS Bucket, Latex* — 2025
- ResGit is an resume management system that allows the quick creation of well formatted tailored resume for job applications.
- Led the design and implementation of backend architecture on Flask and AWS.

ConvoAI |*Flask, AWS Bedrock, OpenCV* — 2025
- ConvoAI is a interview AI simulator with interviewee and interviewer context understanding capability.
- Led the backend development of Flask RESTful API calls that link to OpenCV, PyPDF2 and GCP Vertex AI.

Stock Market Analysis Bots |*Python, YFinance, Huggingface, NEAT, CUDA* — 2023-2024
- Developed a script to identify candlestick patterns, 70% accuracy on the S&P 500.
- Efficiently Scraped google's archives for 10,000 news articles, Applied Huggingface AI on articles using CUDA for sentiment analysis.
- Effectively ran a Neural Evolutionary algorithm on the sentiment analysis data and achieved 50% yearly profit on training data.

Awards

Undergraduate Research Fellow |*UC Irvine, California* — 2024-2025
- Awarded for research on the statistical distribution of distant galaxies to analyze the young universe.

Undergraduate Research Fellow |*UC Irvine, California* — 2024-2025
- Awarded for research on item classification algorithm based on text-embedding (natural language processing).

Work Experience

Learning Assistant |*University of California, Irvine* — March 2025 - June 2025
- Organized weekly study sessions with students on Boolean math and Discrete structures.
- Guided students in learning course material during weekly Active Learning lectures.

Physics Tutor |*Kaizen Learning, Singapore* — January 2024-August 2024
- Topped school in Physics HL: 92%, International Baccalaureate Score: 44/45, and
- Delivered individualized tuition to 3 students, Total of 6 hours a week.
- Catalyzed students' improvement from 8% to 50% in 2 months.

Platoon Sergeant |*Singapore Armed Forces, Singapore* — January 2022-November 2023
- Accomplished the Guards Conversion Course as the top 5 graduates. Promoted to 2nd Sergeant.
- Motivated, led and trained a platoon of 20 in the elite rapid deployment infantry formation (guards).
- Spearheaded the revamp of a 300 page knowledge base. Conferred the title: Subject Matter Expert.