Dylan Porter

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EDUCATION

The University of Hong Kong, BEng in Computer Science   **Sep 2024 – Expected Jun 2028**

Relevant Coursework: Data Structures & Algorithms, Linear Algebra, Probability & Statistics, Discrete Mathematics, Programming & Technologies (C++), Object Oriented Programming (Java), Calculus & ODEs

SKILLS

Languages: Python, C++, Java, JavaScript/TypeScript, SQL

AI & Data: RAG Pipelines, Vector Embeddings, LLMs, Model Quantisation, Prompt Engineering

Cloud & Tools: AWS (EC2, Lightsail, Lambda, S3), Docker, Git, Linux/Unix, n8n, Firebase

WORK EXPERIENCE

Full Stack AI Engineer   **Jul 2024 – Present**
Collective Global, Hong Kong   *Contract*

- **VETsage**: Engineered a RAG-based clinical reporting system utilising DeepSeek models and OCR pipelines to extract and analyse complex medical data from PDFs and images
- **SourcingGPT**: Developed an agentic AI system using PostgreSQL vector embeddings and GPT-4 to automate natural language supplier recommendations and outreach
- Architected cloud-native backends on AWS (Lambda, S3, SES, Textract) and Firebase, alongside responsive React, TypeScript, TailwindCSS, and Vite frontends for production applications
- Collaborated directly with clients and teams to translate complex requirements into production-ready MVPs, managing the full development lifecycle via Git and CI/CD practices

IBM Z Student Ambassador   **Sep 2025 – Present**
IBM / YourBigYear, Hong Kong   *Ambassadorship*

- Served as campus representative at the University of Hong Kong, conducting peer outreach and educational sessions for IBM Z mainframe technology adoption and enterprise systems literacy
- Delivered keynote presentations at IBM Z and LinuxONE Community Day 2025 in Hong Kong and IBM Z Day 2025 to 1000+ total attendees, demonstrating technical advocacy and public speaking

Coding Instructor   **May 2025 – Present**
BSD Education, Hong Kong   *Part-time*

- Instructed 100+ K-12 students (ages 7-14) in HTML, CSS, JavaScript, Python, and algorithms concepts through online curriculum, extracurricular classes, and coding camps

Software Engineering Intern   **Sep 2023 – Mar 2024**
BSD Education, Hong Kong   *Internship*

- Deployed a localised LLaMA-2 model on AWS EC2, applying model quantisation (llama.cpp) to optimise efficient CPU-based inference for a chatbot
- Designed and optimised prompt engineering strategies and conversational memory to improve response quality for a userbase of 500+ educators
- Implemented a robust RESTful API with Python to manage model requests, handling rate limiting and queue management through a custom web interface to serve 150,000+ students

HONOURS & AWARDS

Finalist, GenAI Hackathon for SDGs, The University of Hong Kong   **Oct 2024**

Governor General's Academic Medal, DSC International School   **Jun 2024**