Yehan Ranasinghe

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Education

The Hong Kong University of Science and Technology- Hong Kong Sept 2022 – Present (May 2026)
BENG in Computer Science and Artificial Intelligence with a Minor in Business - 3rd year student (CGA~ 3.30)
Course Highlight: Data structures, Designing Algorithms, Operating systems and SE, Advanced programming, ML, AI, Finance, Economics

The Swinburne University of Technology- Melbourne, Australia Oct 2021 – May 2022
Diploma of Engineering (CGA = 4.0)
Course Highlight: Digital and Data Systems, Design and Innovation, Calculus and Applications, Electronics and Electromagnetism

Work Experiences

Cyber Security and Technology Risk Internship - Advisory at KPMG, Hong Kong *Summer Internship* Jun 2024 – Jul 2024
– Worked as an ethical hacker executing simulation attacks, application and network penetration testing, and security architecture reviews
– Collaborated on the delivery of cloud security engagements, including cloud security architecture design and DevSecOps transformation
– Investigated website security issues including session fixation, SQL injection, CSRF, XXS, DDoS attacks (OWASP Top Ten, Burp Suite)
– Coordinated with 2 CISOs on how to better manage their cyber security by designing their Cyber Organizational Structure
– Conducted in-depth research on the risks involved with DLT in financial institutions (Ethereum Parity, AWS EC2 Cloud Infrastructure)

Software Engineer at Metalympics Limited *Part Time* Mar 2024 – May 2024
– Developed iOS mobile applications using JS frameworks like ReactJS and React Native, delivering seamless & user-friendly experiences
– Incorporated business strategy and requirements to execute UI/UX planning, seamlessly integrating backend services (AWS Amplify)
– Enhanced the application's features to effectively fix the bugs and optimize the overall performance, reliability and efficiency
– Ensuring all products and recommendations are user-friendly, reliable (Swift, TypeScript, DevOps)

Software Engineer at Oxbridge Economics Limited *Winter Internship* / Dec 2023 – Jan 2024
– Enhanced search accuracy with fuzzy search algorithm on the DB collection, improving statistical data retrieval efficiency support by 10%
– Coordinated with backend and front-end services (JSON, REST, SQL, Kotlin, Java etc.) to improve user experience
– Developed a concise and user-friendly React dashboard demo, powered by Plotly library AI and ML capabilities.
– Gained experience with AWS technologies -S3 buckets, Lambda, CloudWatch, AWS instances and Shell Scripting with Python.

Relevant Projects

Brainchamp Startup Project *Application Development Team* / Feb 2023 – Feb 2024
– Collaborated on the creation of an innovative Unity-based app designed to enhance students' cognitive thinking- (Built 2+ games)
– Key contributor in the development team, utilizing Blender to create 3D models that enhanced our app (HK Techathon Finalist)
– Orchestrated the integration of AI tools to enhance the Connect-4 game ecosystem, aligning psychology research with the design

Distributed Ledger Technology (DLT) Research Project *Research Project* / Jun 2024
– Conducted a research on the potential business opportunities for KPMG through risk management considerations on the usage of DLT
– Presented the implementation of the PoC prototype designed by Deloitte as a step to deploy DLT in trade finance, built on Ethereum parity, hosted on AWS EC2, focusing on the application which was built on an open-source MEANS stack
– Developed an AI trading bot using Python that used Alpaca as the broker and Strategy as the trading bot with deployment capabilities.

Honors and Awards

– HKSAR Government Scholarship Fund- Talent Development Scholarship Awardee Jul 2024
– IOT Data Hackathon First Runner's Up: Designed an EV charger Management Solution March 2024
– AI x HK OpenCup Finalist 2023 (Ideation of an AI Smart Home System) Nov 2023
– HKUST Admission Scholarship Awardee Sept 2022
– Dean's List of the School of Engineering at HKUST Sept 2022- Present
– Edexcel Lower Secondary Examination First in the World for Mathematics *World Prize* /June 2017

Additional Information

– **Languages:** Sinhala (Native), English (Fluent/Professional), Spanish (Intermediate), Chinese Mandarin (Elementary)
– **Professional Certifications:** AWS Certified AI Practitioner, Fundamentals of Deep Learning by NVIDIA, Career Essentials in Gen AI by Microsoft, AI-102: Azure AI Engineer Associate (In Progress)
– **Professional Membership:** The Hong Kong Institution of Engineers Student Member
– **Extra-Curricular:** Technical Core Team Member at Google Developers Group HKUST, Google Product Expert, HKUST Head Student Ambassador, Entrepreneurship Ambassador at HKUST, Cricket Team member (Hong Kong University League Champions 2022)