

EDUCATION

Nanyang Technological University, Singapore **Bachelor of Engineering (Computer Science)**

Aug 2019 – May 2023

- Expected Honours (Distinction), Current CGPA: 4.43/5.00
- Specialization in Networking and Cyber-Security
- Achieved Distinction in Compiler Techniques, Systems, Algorithms, Data Science & AI, Human Computer Interaction

CERTIFICATIONS

AWS Certified Cloud Practitioner (CLF-C01)
AWS Certified Developer - Associate (DVA-C01)

WORK EXPERIENCE

Cyberlife.ai

Aug 2022 – Aug 2022

- Built an eyechart MVP prototype based on Flutter, implementing native iOS (Swift and Objective C) and Android code (Kotlin) to track the user's distance from the phone for medical start-up working with NUH.

JP Morgan Chase & Co.

June 2022 – Aug 2022

Summer Analyst Intern – Software Engineer Program

- Deployed to test and production a custom forwarding service for an API gateway for the main compliance site used by all JPMC employees. Fixed some existing bugs in the system and added documentation and tests
- Implemented a custom Named Entity Recognition model pipeline, comprising the identification and labelling of training data from text data, pre-processing of labelled training data, training of BERT model and post-processing of model output. Results were comparable or exceeded existing AWS Comprehend model trained for the same task by the department.
- Worked closely with senior management to communicate findings and provided advice and mentorship to fellow interns throughout both projects

Oversea-Chinese Banking Corporation

July 2021 – Dec 2021

Group Operations and Technology – Consumer Loan Operations

- Provided with opportunity to lead upgrading of an in-department File Tracking System built in Django including new functionality for tracking and reporting and changes to the User Interface.
- Managed to deliver all initial user-specified functionality within 3 weeks of taking over project, allowing for users to revise the upgrading project to take on a much larger scope despite lack of pre-existing documentation or any product owners to communicate with.
- Going beyond what was initially tasked, implemented a test-suite covering 75% of the 15000LOC codebase, fixing security vulnerabilities and adding documentation.
- Performed data analysis and visualization on department workflow and sales data.

Oversea-Chinese Banking Corporation

May 2021 – July 2021

Group Customer Analytics and Decisioning

- Built Network-Visualization Tool to display and analyse graph networks using Ant Mobile's G6 framework, providing more features and functionality than other existing open-source tool currently available
- Worked on a Feature Selection project to enhance exiting dashboards and risk-identification models.
- Employed various machine-learning models to identify fraud in banking and anomalous data. Presented findings with colleagues to implement into risk-identification models deployed by the Company.
- Worked under the main Data Analytics and Machine Learning arm of the Bank and learnt Data Science under the supervision of senior Data Scientists.

Ideas Ink. School (Buona Vista) 2021

Aug 2020 – March 2021

Web Development, Full Stack Developer (Contracted)

- Prepared functional, non-functional requirements and tech stack after discussions and training with owner and stakeholders to understand their needs.

- Developed and deployed a website for internal use to ramp-up tutors with Django, PythonAnywhere, and Google Cloud API with evaluation metrics and back-end analysis software to improve productivity of tutors at the school by improving their teaching and reduce the need of senior tutors to mentor new tutors, reducing headcount by 2.
- Preparing extension of the project to include take-home assignments for the students at the school, and easily accessible digitalised notes for the school.

Chainj

Dec 2020 – Feb 2021

Front-End Developer, App Developer (Contracted)

- Outlined software solution and implemented prototype for entrepreneur client interested in building a proof-of-concept distributed blockchain music distribution platform after discussions to understand his needs.

ACADEMIC PROJECT

Nanyang Technological University, Singapore

Jan 2021 – March

2021

Software Engineering Project – CarparkFinder

- Oversaw and managed student team throughout lifecycle of software development for this project and brought entire team of 6 members behind shared vision.
- Lead in charge of technical decisions and software architecture; Designed overall architecture of the project and distributed work to teammates that led to a smooth-running project development with time for extended functionality.
- Developed a website with HTML/CSS/JS that allows drivers to easily find carpark throughout Singapore with Speech-to-Text and Text-to-Speech functionality

Nanyang Technological University, Singapore

Jan 2021 – April 2021

Software Systems Analysis and Design – Space Maze

- Created a game to learn software engineering concepts that measures user skill and knowledge in a team of student developers.
- Project lifecycle included application design, architecture, and development and rollout.
- Hosted feedback sessions with focus groups to verify that the application met their requirements.

CO-CURRICULAR ACTIVITIES

Facebook Above and Beyond Computer Science (2021 Cohort)

Early 2021

- Learned from L2 Facebook Software engineers about coding best practices and various algorithms
- Opportunity to learn from senior engineers already in the field, and know more about their daily job at Facebook

JP Morgan Chase & Co – Code for Good

Middle 2021

- Exciting opportunity to use tech skills to help Non-Governmental Organizations (NGOs) solve their most pressing problems.
- In 24 hours, worked with ad-hoc team to create most complete solution out of all the competing teams, involving a low-code redesign with complete mocks of NGO website, together with a complete payment solution to solve targeted problems brought up by the NGO
- Made new friends and had a good time coding for a charity doing great work

Shopee Hackathon

Late 2020

- Participated in challenges that included computer vision, image recognition and data analytics.
- Achieved 80+ % accuracy on trained image classification model.
- Performed data cleaning and analytics on various data sets.

Chief Publicity and Publications, Hall of Residence Community Outreach

Jan 2020 – Aug 2020

- Led a team of 6 in charge of the promotional arm of Hall's Community Involvement Program
- Produced and distributed promotional materials to raise awareness/ funds for outreach programs.
- Organised several photoshoots for members for publicity/ picture identities for them to hang on their Hall doors.

SKILLS

Languages: English, Chinese

Programming: Python, JavaScript, Kotlin, Java, C, SQL, HTML, CSS

Frameworks: ReactJS, Django, NumPy/Pandas, Spring Boot, Zuul, Docker, Kubernetes

Other Skills: Project Management, Web Development, Client Management, Requirements Development