

## EDUCATION

<b>Nanyang Technological University, Singapore</b> <b>Bachelor of Engineering (Computer Science)</b>	Aug 2019 – May 2023
<ul style="list-style-type: none"><li>• Honours (Distinction), GPA: 4.43/5.00</li><li>• Specialization in Networking and Cyber-Security</li><li>• Achieved Distinction in Compiler Techniques, Systems and Algorithms, Data Science &amp; AI, Human Computer Interaction</li></ul>	

## WORK EXPERIENCE

<b>JP Morgan Chase &amp; Co.</b> <b>Software Engineer Program – Azure Cloud Enablement</b>	Aug 2023 – Present
<ul style="list-style-type: none"><li>• Architected and oversaw the implementation of test infrastructure for Azure policies. Azure policies enforce controls on all deployed resources, and I led the implementation of an end-to-end test strategy for the firm's Azure policy platform which did not previously exist, resolving control issues and minimizing risk. The test platform was built with a combination of CI tooling (Jenkins), shared Python libraries, which team members used to implement BDD test scenarios on top of.</li><li>• Reengineered the firm's <b>Azure infrastructure inventory system</b> to support its Azure enablement strategy. To accommodate the firm's rapidly expanding Azure footprint, my team redesigned the system to support a <b>change-based feed</b>, capturing and propagating only incremental updates. The system was primarily built with Python and Azure compute and storage.</li><li>• Implemented <b>chaos engineering</b> for the firm's Azure infrastructure to ensure resiliency and compliance with SLO targets. Developed Proof of Concepts (POCs) for testing PaaS services, created a comprehensive chaos testing plan that covered 85% of Azure services utilized by the firm. Successfully conducted <b>chaos game days</b> in production environments, collaborating with SRE, development, and other key teams. Identified and resolved over 20 vulnerabilities, significantly enhancing system reliability and reducing incident response time to allow services to meet RTO targets.</li></ul>	

<b>JP Morgan Chase &amp; Co.</b> <b>Summer Analyst Intern – Software Engineer Program</b>	June 2022 – Aug 2022
<ul style="list-style-type: none"><li>• Deployed to production a custom forwarding service for an API gateway for the main JPMC compliance site used in all regions. Fixed some existing bugs in the system and added documentation and tests</li><li>• Implemented a custom Named Entity Recognition model pipeline to identify customer complaints, comprising the identification and labelling of custom tokens, pre-processing of labelled training data, training of BERT model and post-processing of model output for better results. Results were comparable or exceeded existing AWS Comprehend model trained for the same task by the department.</li><li>• Worked closely with senior management to communicate findings and provided advice and mentorship to fellow interns throughout both projects</li></ul>	

<b>Cyberlife.ai</b>	Aug 2022 – Sept 2022
<ul style="list-style-type: none"><li>• Built eye-chart functionality for a mobile application made by medical startup's working with NUH (National University Hospital), comprising of real-time user distance tracking from the chart and voice transcription, for evaluating a user's eyesight in partnership with doctors in the company.</li><li>• Built with Flutter, using native iOS (Swift and Objective C) and Android code (Kotlin).</li></ul>	

<b>Oversea-Chinese Banking Corporation</b> <b>Group Operations and Technology – Consumer Loan Operations</b>	July 2021 – Dec 2021
<ul style="list-style-type: none"><li>• 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.</li><li>• 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. With the additional bandwidth, I implemented a test-suite covering 75% of the 15000LOC codebase, fixing security vulnerabilities and adding documentation.</li><li>• Performed data analysis and visualization on department workflow and sales data.</li></ul>	

**Oversea-Chinese Banking Corporation  
Group Customer Analytics and Decisioning**

May 2021 – July 2021

- 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 via the identification of anomalous data. Presented findings with colleagues to implement into risk-identification models deployed by the Company.

**Chainj**

Dec 2020 – Feb 2021

**Front-End Developer, App Developer**

- 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.

**CERTIFICATIONS**

Microsoft Certified: Azure Developer Associate – Completed Aug 2024

AWS Certified Developer (DVA-C01) – Completed Feb 2023

AWS Certified Cloud Practitioner (CLF-C01) – Completed Nov 2022

HashiCorp Terraform Associate (003) – Completed Aug 2023

**ACADEMIC PROJECTS**

**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.
- Developed a website allowing drivers to easily find carparks throughout Singapore with Speech-to-Text and Text-to-Speech functionality

**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

**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

**Shopee Hackathon**

Late 2020

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

**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.

**TECHNICAL SKILLS**

**Languages:** Python, JavaScript, Kotlin, Java, SQL

**Frameworks:** ReactJS, Django, Flutter, Spring Boot

**Cloud & DevOps:** Azure, AWS, Terraform, Kubernetes