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EDUCATION

Nanyang Technological University, Singapore   Aug 2019 – May 2023
Bachelor of Engineering (Computer Science)
- Honours (Distinction), GPA: 4.43/5.00
- Specialization in Networking and Cyber-Security
- Achieved Distinction in Compiler Techniques, Systems, Algorithms, Data Science & AI, Human Computer Interaction

WORK EXPERIENCE

JP Morgan Chase & Co.   June 2022 – Aug 2022
Summer Analyst Intern – Software Engineer Program
- 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
- 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.
- Worked closely with senior management to communicate findings and provided advice and mentorship to fellow interns throughout both projects

Cyberlife.ai   Aug 2022 – Sept 2022
- Built eye-chart functionality for a mobile application made by medical startup's working with NUH, 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.
- Built with Flutter, using native iOS (Swift and Objective C) and Android code (Kotlin).

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 via the identification of 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)   Aug 2020 – March 2021
Web Development, Full Stack Developer (Contracted)
- Planned and recommended a technical solution for the tuition company 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.

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.

CERTIFICATIONS

AWS Certified Cloud Practitioner (CLF-C01)
AWS Certified Developer (DVA-C01)
HashiCorp Terraform Associate (003) (in-progress)

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.
- Designed overall architecture of the project and distributed work to teammates that led to a smooth-running project with time for extended functionality.
- Developed a website allowing drivers to easily find carparks 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
Misc: GitHub, Microsoft Office