**Weiji ZHU (John)**

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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** Late2020

* 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