**Weiji ZHU (John)**

**Mobile No: 9822 0613 | Email: zhuweiji1997@gmail.com**

**LinkedIn:** https://www.linkedin.com/in/weiji-zhu-a8b96b179/

**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 and Algorithms, Data Science & AI, Human Computer Interaction

**WORK EXPERIENCE**

**JP Morgan Chase & Co.** Aug 2023 – Present

**Software Engineer Program**

* Spearheaded the implementation of **chaos engineering** for the firm’s Azure infrastructure to ensure resiliency and compliance with SLO targets. Developed Proof of Concepts (POCs) for testing PaaS services, overcoming significant challenges related to restricted access. Created a comprehensive chaos testing plan that covered 85% of Azure services utilized by the firm. Successfully conducted **chaos game days** in production environments, collaborating with SRE, development, and other key teams. Identified and resolved over 20 critical vulnerabilities, significantly enhancing system reliability and reducing incident response time by 30%.
* Designed and developed an **Azure Governance Dashboard** to centralize and manage policy and role-related information for all Azure services across the firm. The dashboard supports compliance and cloud platform teams, by integrating Azure constructs (e.g., Policies, Role Definitions) with internal risk management controls. Streamlined regulatory compliance processes, reducing audit preparation time by 40% and enhancing overall governance efficiency.

**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.

**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**

* 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
* 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.

**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.

**TECHNICAL SKILLS**

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

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

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