

## Wei Ji ZHU

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### EDUCATION

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

Aug 2019 – May 2023

- Expected Honours (Distinction), Current CGPA: 4.3/5.00
- Achieved Distinction in: Data Structures, Algorithms, Data Science & AI, Human Computer Interaction

### 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 env and production; 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)

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

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### Nanyang Technological University, Singapore Software Engineering Project – CarparkFinder

Jan 2021 – March 2021  
<https://carparkfinder.netlify.app>

- 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 Software Systems Analysis and Design – Space Maze

Jan 2021 – April 2021

- 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

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### 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

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**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

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