Weiji ZHU

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EDUCATION

Nanyang Technological University, Singapore   Aug 2019 – May 2023
Bachelor of Engineering (Computer Science)
- Expected Honours (Distinction), Current CGPA: 4.42/5.00
- Achieved Distinction in: Data Structures, Algorithms, Data Science & AI, Human Computer Interaction

WORK EXPERIENCE

JP Morgan Chase & Co.   June 2022 – Aug 2022
Summer Analyst – Software Engineer Program
Pending

Oversea-Chinese Banking Corporation   May 2020 – Dec 2021
Group Operations and Technology – Consumer Loan Operations
- Provided with opportunity to lead in-house development and upgrading of File Tracking System because of a lack of in-house software development expertise
- 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 project owners to communicate with.
- Going beyond what was initially tasked, provided value to the project by implementing a test-suite covering 75% of the 15000LOC codebase, fixing security vulnerabilities and adding documentation to the bare codebase.
- Performed data analysis and visualization on department workflow and sales data.

Oversea-Chinese Banking Corporation   May 2020 – Dec 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 colleague 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. Had the opportunity to experience working with different two departments under Bank's STEM Internship Program.

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
- Created 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 for entrepreneur client interested in building a proof-of-concept distributed blockchain music distribution platform after discussions to understand his needs.
- Created and hosted a website that demonstrates product features using ReactJS; Completed in less than a month while doing on-the-job learning of the React framework.
- Prepared a barebones implementation of the music distribution platform with Python.

ACADEMIC PROJECT

Nanyang Technological University, Singapore   Jan 2021 – March 2021
Software Engineering Project – CarparkFinder   *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 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.
- Game also provided feedback to professors on student performance.
- Performed unit testing to verify system 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
- 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, Java, C, SQL, HTML, CSS
Frameworks: ReactJS, Django, NumPy/Pandas
Other Skills: Project Management, Web Development, Client Management, Requirements Development
Misc: GitHub, Microsoft Office