NGO JUN HAO JASON

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EXPERIENCE

[DBS Bank]

Machine Learning Engineer **Aug 2022 – Present**

- Developed the user interface of a financial modelling website
- Mentored a teammate in front end development
- Built a text processing pipeline for sentiment analysis
- Contributed to the set-up of guidelines, processes and standards for the team
- Technologies used: Python, TypeScript, React

Software Engineer **Jul 2021 – Jul 2022**

- Created and enhanced application programming interfaces for a customer relationship management website
- Practised test-driven development to deliver modular code with high coverage
- Onboarded several newcomers by helping them to get familiar with the code base and coding standards
- Learnt and helped out with front end development on top of day-to-day tasks
- Technologies used: Java, Kotlin, TypeScript, MariaDB, Spring Boot, React, Karate, Cypress

[Aural-Aid]

Software Development Intern **May 2020 – Jul 2020**

- Did full stack development for a website that scrapes companies' contact information
- Developed a prototype mobile app that controls iris doors remotely
- Technologies used: HTML, JavaScript, Python, Dart, Bootstrap, Django, Flutter

[Omnivision Technologies]

Computer Vision Intern **Aug 2019 – Dec 2019**

- Built a website for displaying bounding boxes, to aid the team in qualitative analysis of object detection models
- Sped up the collection and pre-processing of more than 10000 images via scripting
- Technologies used: HTML, JavaScript, Python, Bootstrap, Django

EDUCATION

[Nanyang Technological University]

Bachelor of Engineering in Computer Science **Aug 2017 – May 2021**

Honours: Distinction (GPA: 4.46 / 5.00) | Elective Focus: Artificial Intelligence | Minor: Psychology

FAVOURITES

Books: The Software Craftsman | Drive | Clean Code

Practices: code review | refactoring | pair programming | test-driven development (TDD)
continuous integration and continuous delivery (CI/CD)

ACADEMIC PROJECTS

[Nanyang Technological University + Omnivision Technologies]

Joint Industry Final Year Project **Aug 2020 – Jun 2021**

Deep Learning Based License Plate Recognition

- Fine-tuned a license plate detector to get an average precision of 96.9%, at an IOU threshold of 0.7
- Improved upon a license plate recogniser to reach an accuracy of 97.2%
- Combined the license plate detector and recogniser, resulting in a lightweight and fast license plate recognition system with an accuracy of 96.1%
- Technologies used: Python, MXNet, Tensorflow

[Nanyang Technological University]

Undergraduate Research Experience on Campus **Aug 2018 – Jul 2019**

An Augmented Virtuality Approach To 3D Videoconferencing

- Learnt about narrowcasting, and applied learnings to create a proof of concept for 3D virtual meeting apps
- Technologies used: C#, Unity