

NGO JUN HAO JASON

Email: njhjason@protonmail.com | GitHub profile: <https://github.com/NgoJunHaoJason>

EXPERIENCE

[DBS Bank]

Machine Learning Engineer (frontend-focus)

Aug 2022 – Present

- Developed the user interface of a financial modelling website as a proof-of-concept, intended to replace weeks of manual input in Excel spreadsheets with a few minutes of form submission
- Guided teammates in front end development by doing pair programming and going through React concepts
- Instilled a culture of documentation in the team, which reduced the time spent on knowledge transfer
- Contributed to the set-up of guidelines, processes and standards for the team
- Built a text processing pipeline for sentiment analysis
- Technologies used: Python, TypeScript, React, styled-components

Software Engineer (backend-focus)

Jul 2021 – Jul 2022

- Created and enhanced application programming interfaces for a customer relationship management website (Client Connect) that supplements the interactions between relationship managers and customers
- Championed the values of software craftsmanship and code quality, to raise the bar of professional software development in the project
- Onboarded several newcomers by helping them to get familiar with the code base and coding standards
- Pioneered test-driven development to deliver modular code with high coverage in the team
- Learnt and helped out with front end development on top of day-to-day tasks
- Technologies used: Java, Kotlin, Spring Boot, MariaDB, Karate, TypeScript, React, styled-components, Cypress

[Aural-Aid]

Software Development Intern

May 2020 – Jul 2020

- Did full stack development for a website (Autoscraper) that scrapes companies' contact information
- Developed a prototype mobile app that controls iris doors remotely
- Technologies used: HTML, JavaScript, Python, Django, Bootstrap, SQLite, Dart, Flutter, AWS (EC2 and Lambda)

[Omnivision Technologies]

Computer Vision Intern

Aug 2019 – Dec 2019

- Built a website for displaying bounding boxes and deployed it on an on-premise server, to aid the computer vision 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, Django, Bootstrap, SQLite, Nginx, uWSGI

EDUCATION

[Georgia Institute of Technology]

Online Master of Science in Computer Science

Jan 2023 – Present

Specialisation: Interactive Intelligence

[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, LFFD, LPRNet

[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