

Ng Jin Shan

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EDUCATION

Monash University Master of Engineering Major: Engineering Management Grade: N/A	<i>Jul 2023 – Jun 2024</i>
Monash University Bachelor of Engineering (Honours) Major: Software Engineering Grade: First Class Honours (H1)	<i>Oct 2018 – Jun 2023</i>

EXPERIENCE

Monash University <i>Software Developer</i>	Clayton, Victoria <i>Oct 2022 - Present</i>
<ul style="list-style-type: none">Designing a relational database with over 15 tables and migrating from a previously unstructured and data-redundant manual record-keeping system on Google Drive to AirtableDeveloping dashboards and interfaces on Airtable to monitor companies with agreements with Monash, while implementing custom JavaScript scripts for automating data manipulation and workflow tasksDesigning and developing the Companies on Campus client portal using React.ts, Express.js, Docker and NGINX	
<i>Information Technology Project Officer</i>	<i>Apr 2023 – May 2023</i>
<ul style="list-style-type: none">Developed the frontend interface using React Typescript for a research project related to synthetic speech generation AIDeveloped a web app using React Typescript and Flask for a research project related to object detection AI	
<i>Research Assistant</i>	<i>May 2022 – Jul 2022</i>
<ul style="list-style-type: none">Developed the frontend interface for a project related to NLP using React	
Fusionex <i>Business Analyst Intern</i>	Petaling Jaya, Malaysia <i>Nov 2021 – Jan 2022</i>
<ul style="list-style-type: none">Involved in full-stack development of a core product, GIANT, using ASP.NET Core, Vue.js and MongoDB	
Dassault Systemes <i>Web Developer Intern</i>	Petaling Jaya, Malaysia <i>Jun 2021 – Nov 2021</i>
<ul style="list-style-type: none">Involved in full-stack development of in-house service portal using PHP, JavaScript, HTML5, CSS and MySQL	
Monash University Malaysia <i>Research Assistant</i>	Sunway, Malaysia <i>Apr 2021 – Oct 2021</i>
<ul style="list-style-type: none">Trained a deep-learning AI model to diagnose breast cancer using histopathological images using PyTorch along with Lime to explain the model resultsDeveloped API to use that trained model using Flask and a website using React	
Curlec <i>Software Engineer Intern</i>	Petaling Jaya, Malaysia <i>Dec 2020 – Feb 2021</i>
<ul style="list-style-type: none">Spearheaded a demo bank system which demonstrates a new real-time direct debit transaction using the MERN stackDeveloped a new subscription-based system to offer their services/products as subscriptions using React, DjangoRestFramework and PostgreSQL	

PROJECTS

Hybe's Project Plan

- Developed a project plan that integrates Environmental, Social and Governance capabilities (ESG) into Hybe's existing NFT platform for my postgraduate project management unit FIT5057.
- Conducted stakeholder and communication management planning, scope planning, schedule planning, budget planning and risk management planning.

[Rig Marketplace](#)

- Developed an iOS app using Swift and Firebase, enabling buying and selling custom computer parts, incorporating a virtual assistant that leverages ChatGPT API and a community forum.

ADHD Simulation

- Conducted research and developed VR environment to simulate ADHD symptoms using Unity as an empathic approach for requirements engineering

Minizinc Auto-grader

- Designed and developed the frontend for an auto-grading platform for my final year project using React Typescript

[Ngjinshan.github.io](#)

- Designed and developed my portfolio site using React

Ah Her Food

- Developed an order management system website using the MERN stack

[Ng Dental](#)

- Designed and developed a static website using React

RMA Programme

- Developed an in-house sales and services tracking program for General OA Sdn Bhd using WinForms, C# and MongoDB

Attendance

- Developed a geofencing-based attendance mobile app for Monash's School of Medicine using Flutter, Express.js and MongoDB

[TryAngle](#)

- Developed a hyper-casual game using Unity

SKILLS

Languages: English, Mandarin, Malay (Working proficiency)

Programming Languages: JavaScript, Typescript, Python, PHP, C#, Java, C, HTML, CSS

Backend Frameworks: Express, Node.js, Django, DjangoRestFramework, ASP.NET Core

Frontend Frameworks: React, Next.js, Swift

Databases: MongoDB, Oracle SQL, PostgreSQL, MySQL, Cassandra, Neo4j

Others: Git, SVN, Unity, Heroku, Netlify, PyTorch, Docker, Nginx, Airtable, Firebase

Project Management: Enterprise Architecture Governance, Requirements Management, Risk Assessment, Governance Framework Design