

# Ng Jin Shan

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## EXPERIENCE

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<b>Monash University</b> <i>Software Developer</i>	Clayton, Australia <i>Oct 2022 - Present</i>
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- 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 Airtable
- Developing dashboards and interfaces on Airtable to monitor companies with agreements with Monash, while implementing custom JavaScript scripts for automating data manipulation and workflow tasks
- Pioneered and spearheading the development of the first-ever Companies on Campus client portal using React.ts, Express.js, Docker, NGINX, AWS EC2, Red Hat Enterprise Linux
- In charge of discussing and collaborating with different teams and departments in Monash to meet business requirements

<b>Fusionex</b> <i>Business Analyst Intern</i>	Petaling Jaya, Malaysia <i>Nov 2021 – Jan 2022</i>
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- Involved in full-stack development of a core product, GIANT, using ASP.NET Core, Vue.js and MongoDB

<b>Dassault Systemes</b> <i>Web Developer Intern</i>	Petaling Jaya, Malaysia <i>Jun 2021 – Nov 2021</i>
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- Involved in full-stack development of in-house service portal using PHP, JavaScript, HTML5, CSS and MySQL

<b>Monash University Malaysia</b> <i>Research Assistant</i>	Sunway, Malaysia <i>Apr 2021 – Oct 2021</i>
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- Trained a deep-learning AI model to diagnose breast cancer using histopathological images using PyTorch along with Lime to explain the model results
- Developed API to use that trained model using Flask and a website using React

<b>Curlec</b> <i>Software Engineer Intern</i>	Petaling Jaya, Malaysia <i>Dec 2020 – Feb 2021</i>
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- Spearheaded a demo bank system which demonstrates a new real-time direct debit transaction using the MERN stack and AWS EC2.
- This demo bank system was used to present to all major banks in Malaysia to demonstrate upcoming real time payment capability.
- Developed a new subscription-based system to offer their services/products as subscriptions using React, DjangoRestFramework and PostgreSQL

## SKILLS

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**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

**DevOps:** Git, SVN, Docker, NGINX, AWS EC2, Red Hat Enterprise Linux

**Others:** Unity, Heroku, Netlify, PyTorch, Airtable, Firebase

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

## PROJECTS

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### 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

## EDUCATION

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**Monash University** | Master of Engineering

*Jul 2023 – Jun 2024*

Major: Engineering Management

Grade: N/A

**Monash University** | Bachelor of Engineering (Honours)

*Oct 2018 – Jun 2023*

Major: Software Engineering

Grade: First Class Honours (H1)