# NG JIN SHAN

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Melbourne, VIC 3000

## EDUCATION

**Monash University** | Bachelor of Engineering (Honours)                                           *2018 - Present*
Major: Software Engineering
GPA: 3.823 | WAM: 83.105

**Sunway University** | A-levels                                                                      *2017 - 2018*
Subjects: Physics, Chemistry, Mathematics
2A* 1A

## EXPERIENCE

**Monash University**                                                                              Clayton, Victoria
*Software Developer*                                                                            *Oct 2022 - Present*

- Designing relational database with more than 15 tables and implementing on Airtable to migrate from manual record keeping process on Google Drive
- Designing and developing dashboards and interfaces on Airtable to keep track of companies that have or had contracts with Monash
- Writing custom Airtable scripts in JavaScript to manipulate data and automate workflow
- In charge of discussing and collaborating with different teams and departments in Monash to meet business requirements

*Information Technology Project Officer*                                                          *Apr 2023 – May 2023*

- Developed the frontend interface using React Typescript for a research project related to synthetic speech generation AI
- Developed a web app using React Typescript and Flask for a research project related to object detection AI

*Research Assistant*                                                                              *May 2022 – Jul 2022*

- Developed the frontend interface for a project related to NLP using React

**Fusionex**                                                                                  Petaling Jaya, Malaysia
*Business Analyst Intern*                                                                        *Nov 2021 – Jan 2022*

- Involved in full-stack development of a core product, GIANT, using ASP.NET Core, Vue.js and MongoDB

**Dassault Systemes**                                                                         Petaling Jaya, Malaysia
*Web Developer Intern*                                                                           *Jun 2021 – Nov 2021*

- Involved in full-stack development of in-house service portal using PHP, JavaScript, HTML5, CSS and MySQL

**Monash University Malaysia**                                                                    Sunway, Malaysia
*Research Assistant*                                                                             *Apr 2021 – Oct 2021*

- 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

**Curlec**                                                                                    Petaling Jaya, Malaysia
*Software Engineer Intern*                                                                       *Dec 2020 – Feb 2021*

- Spearheaded a demo bank system which demonstrates a new real-time direct debit transaction using the MERN stack
- Developed a new subscription-based system to offer their services/products as subscriptions using React, DjangoRestFramework and PostgreSQL

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## PROJECTS

**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

**Shindo**
- Designed and developed an NFT website using React and hosted with Firebase

**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**
- Developed a static website using React

**RMA Programme**
- Developed an inhouse programme for General OA Sdn Bhd to keep track of their sales and services using WinForms, C# and MongoDB

**Attendance**
- Developed an attendance capturing mobile application for Monash's School of Medicine which uses geofencing and geolocation to capture students' attendance for my yearlong project using Flutter, Express.js, and MongoDB

**TryAngle**
- Developed a hyper-casual game which is out on Google Play Store and Apple App Store 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