

Gan Sang Wei, Wayne

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GitHub: <https://github.com/xisingazix>

Portfolio site: <https://xisingazix.github.io>

Career Summary

I've always been passionate about joining the tech industry since my poly days. Recently I discovered Generation, and seized the opportunity to join their 3months Junior Full Stack Developer bootcamp. This rigorous program equipped me with hands-on experience in creating responsive websites, games and software solutions. I bring over 10 years of transferable experience in analytical work, structured problem solving and process optimization, gain from my background in laboratory operations and military service. I am experienced in leading cross-functional teams, coordinating stakeholders and driving outcomes under time-sensitive conditions. I am detail-oriented, methodical and adaptable, with a strong focus on data integrity and workflow efficiency. I am now eager to apply these strengths to build reliable, user-focused web applications and contribute effectively as a developer in a growing tech environment.

Technical Skills

Client-side Languages: HTML5, CSS3, JavaScript (ES6+)

Server-Side Languages: Java, Python

Database: MySQL, SQL, Database Schema Design

Tools & Version Control: Git, GitHub, IntelliJ IDEA, Visual Studio Code, Postman

Testing & Debugging: Unit Testing (JUnit, PyTest), Debugging

Frameworks: React.js, Bootstrap, Spring Boot (Maven), Node.js.

Professional Development

Jr Full Stack Developer Trainee,

Generation Singapore (in partnership with **Microsoft & Temasek Poly**) | *2025–Present*

- Developed a responsive Portfolio site using HTML5, CSS3 & JavaScript
- Gained extensive hands-on experience across the entire development stack, MySQL, Node.js and React
- Utilized modern practices like API integration GitHub version control to manage project development

Capstone Project, link: (in-progress) <https://github.com/xisingazix/team3capstone.stayahead>

- Developed a financial literacy portal, focused on financial education and scam-awareness gamification.
- Created interactive and responsive site with data collection functionality
- Generate clean useable data for scam prevention

Work Experiences

Senior Lab Analyst, Saybolt Singapore |

2023–2025

- Applied systematic debugging and calibration practices to maintain high equipment reliability and ensure data integrity at approximately 99.5% accuracy.
- Managed data entry and quality assurance through a Laboratory Information Management System (LIMS), enforcing strict data validation and compliance protocols parallel to database management and secure coding practices.
- Utilized a methodical approach to test, troubleshoot and improve laboratory processes, demonstrating transferable problem-solving skills relevant to QA and code debugging

Lab Analyst, CCIC Singapore |

2020–2023

- Optimized a complex hydrocarbon distillation process, applying data analysis to improve product yield by 4%, showcasing direct performance optimization and process improvement skills.
- Identified procedural gaps through documentation and root-cause reviews, reducing operational discrepancies and improving team guidance.
- Collaborated with lab teams to streamline workflows and increase throughput efficiency

Ammunition Specialist, Singapore Armed Forces |

2012–2020

- Coordinated systems and resources across 86 facilities, strengthening structured problem-solving and dependency management.
- Led teams of up to 40 personnel and streamlined operations through data analysis, achieving a 25 percent cost reduction.

Education

Diploma in Chemical Engineering – Temasek Polytechnic |

2009–2012

Specialization in Petroleum Processes

Trained and certified at Chemical Process Technology Centre (CPTC)
