Tan Ming Li, Natalie

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Education

National University of Singapore *Aug 2020 - Present*

BACHELOR OF COMPUTING (HONOURS) IN COMPUTER SCIENCE

- **Expected date of graduation** – Dec 2023
- **Relevant coursework** – Software Engineering, Data Structures and Algorithms, Computer Networking, Operating Systems

Purdue University *Aug 2022 - Dec 2022*

STUDENT EXCHANGE PROGRAM (SEP)

- **Activities** – Global Science Partnerships (GSP) Learning Community

Singapore Polytechnic *Apr 2017 - May 2020*

DIPLOMA IN INFORMATION TECHNOLOGY (WITH MERIT)

- **Final GPA** – 3.946/4.0

Experience

Centre for Strategic Infocomm Technologies *May 2022 - Jul 2022*

CLOUD ENGINEER INTERN

- Developed PowerShell DSC scripts to automate the configuration of Windows Server Failover Cluster with Microsoft SQL Server, reducing the number of manual configuration steps required by over 80%.
- Implemented automation scripts into the organization's private cloud service line using JavaScript and VMware vRealize (Orchestrator, Cloud Assembly) as a Database-as-a-Service (DBaaS), enabling 100+ developers to configure clustered database instances easily.

Nyx Intelligence *Jul 2020 - Present*

FREELANCE SOFTWARE DEVELOPER

- **PolicyXchange Pte Ltd** – Developed MyInsurFolio+, a digital client management solution for insurance agents with over 1600+ unique users, using ASP.NET Core and Vue.js.

Centre for Strategic Infocomm Technologies *Oct 2019 - Feb 2020*

FRONTEND SOFTWARE DEVELOPER INTERN

- Designed and developed an e-forms designer proof-of-concept tool using Vue.js and Vuetify, aimed to be highly scalable, maintainable, and user-friendly.
- Implemented reusable modules using Vue.js, Vuetify, and Java Spring Boot for the organization's in-house enterprise web applications, enabling administrators to easily collect and provide up-to-date information to over 100+ users.

Projects

NUS Orbital 2021 - Project Gemini (Intermediate) *May 2021 - Aug 2021*

FRONTEND DEVELOPER

- Designed and developed a cross-platform menubar application using React, Electron, Node.js, and Mozilla DeepSpeech API that allows users to quickly record and transcribe their notes, reducing number of manual clicks to a single keyboard shortcut.
- Communicated with team advisor on team's progress, and maintained project documentation and deliverables.

E-commerce Website for KidZania Singapore *Mar 2019 - Sep 2019*

SOFTWARE DEVELOPER, GROUP LEADER

- Designed and developed an E-commerce website as the backend and DevOps lead for KidZania Singapore as part of my Final Year Project using Vue.js, ASP.NET Core, SQL Server, and AWS (S3, EC2, Lambda, RDS, Route 53) services.
- Communicated with clients and supervisor on team's progress as the group leader and gathered feedback from clients.
- Final grade – Distinction

Awards

2019   **SoC Director's Roll**, Singapore Polytechnic
2018   **SoC Director's Roll**, Singapore Polytechnic

Extracurricular Activity

SP SEED Student Interest Group *May 2018 - Present*

MEMBER, ALUMNI

- Mentored multiple juniors in Singapore Polytechnic School of Computing, with a strong alumni network of more than 50+ ex-students.
- Organised the National Software Competition 2019 as part of the student committee board, held in Singapore Polytechnic for 120 secondary school students.

Skills

Languages   Java, C#, JavaScript, Python, PowerShell, C, HTML, CSS/SCSS, SQL, NoSQL

Frameworks, Libraries, Tools   Vue.js, React, ASP.NET Core, Amazon Web Services (EC2, Lambda, RDS, S3, Route 53), Firebase (Firestore), MS SQL Server, MySQL, MongoDB, Git, GitHub, GitLabs, BitBucket, Android Studio, VMware vRealize Automation (Orchestrator, Cloud Assembly)