

# Natalie Tan

*Work Authorisation: Singaporean Citizen, eligible for the H1B1 Singapore visa, which has a separate quota with no petition required.*

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## Education

### National University of Singapore

Aug 2020 - Dec 2023

BACHELOR OF COMPUTING (HONOURS) IN COMPUTER SCIENCE

- **Relevant coursework** – Software Engineering, Data Structures and Algorithms, Computer Networking, Operating Systems

### Purdue University

Aug 2022 - Dec 2022

STUDENT EXCHANGE PROGRAM (SEP)

- **Relevant coursework** – Introduction to the Analysis of Algorithms, Wireless Networks, Data Communication and Computer Networks, Information Systems

### 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

- **Axxel Marketing Pte Ltd** – Developed a corporate gifting E-Commerce website for Axxel Marketing using ASP.NET Core and Vue.js.
- **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

## 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 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)