Tng Renjie (Singaporean)
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EDUCATION

Nanyang Technological University (NTU)   Aug 2021 - **May 2024**

· **Bachelor of Engineering, Honours (Electrical and Electronic Engineering)** (Expected)
· Specialization: **Infocommunication Engineering (Computer Engineering)**
· Relevant Modules: (1) From Computational Thinking to Prog. (2) Data Structures & Algorithms (3) Introduction to Data Science & AI (4) Web Application Design (5) AI & Data Mining (6) Software Engineering

Ngee Ann Polytechnic (NP)   Apr 2016 - May 2019
· **Diploma in Electrical Engineering**
· Relevant Modules: (1) Programming in C (2) Digital Electronics (3) Digital Systems and Analysis

ACADEMIC / PERSONAL PROJECTS

NTU FYP: **Database Management Web Application**   Aug 2023 – **May 2024**
· Led the development of a dynamic dashboard in **SvelteKit** for real-time data visualization and Excel integration
· Applied Chart.js for advanced data visualization, translating raw data into actionable insights
· Established a robust backend with Prisma and Node.js for efficient data management and API functionality
· Crafted responsive, user-friendly interfaces, enhancing overall user experiences and garnering positive feedback
· Deployed Node.js applications with PM2, ensuring stability and optimal performance

SAF Project: **Reporting Sick Telegram Bot**   Apr 2021 - Aug 2021
· Created and deployed bot to streamline process from personnel to duty officer, reducing repetitive work of crafting messages by 90% utilizing **JavaScript**
· Implemented bot for battalion usage

NP FYP: **Web-based Video Conferencing - Telehealth Focused**   Oct 2018 - Feb 2019
· Designed and developed web application to enable peer-to-peer video conferencing utilizing 3 software programming (**HTML, CSS, JavaScript**)
· Configured a CI/CD pipeline using Travis CI to automate Node.js deployment in AWS Elastic Beanstalk reducing repetitive development processes by 20%
· Achieved **Distinction** Grade

INTERNSHIP EXPERIENCE

Infineon Technologies Asia Pacific Pte Ltd
Digitalization / Automation Project Engineer   May - Dec 2022
· Contributed to the development of an inventory database web application, including potential future expansion
· Boosted productivity by digitalizing internal processes using **Python** (**Flask**), **MySQL**, and **RedHat OpenShift**
· Led the full project lifecycle, delivering the project one month ahead of schedule. (**KLUSA**)

- Refined the project code structure for improved readability and scalability with the use of Flask Blueprints
- Raised awareness of the project by creating informative posters, publications, and presentations for internal use

Centre for Strategic Infocomm Technologies (CSIT)
<u>**Cybersecurity Software Researcher**</u>   Mar - Apr 2019
- Deployed 3 software programming (**HTML, CSS, JavaScript**) to design and develop in-house software

WORK EXPERIENCE

Noel Gifts International Ltd, <u>Logistics Assistant</u>   Dec 2015 - Feb 2016
- Assisted in receiving, issuing, preparing, packing, transferring, staging and clearance of gifts
- Guided new part-timers about order processing
- Executed ad-hoc duties readily (e.g., administration)

CO-CURRICULAR ACTIVITIES & COMMUNITY SERVICES

Nanyang Technological University
- **Floorball Club, <u>Member</u>**   Aug 2021 - **Present**

Youth Expedition Programme, <u>Volunteer</u>   Sep 2017
- Contributed to engage and teach underprivileged children in Baray District, Cambodia
- Involved in social activities (e.g., school housekeeping and repainting)
- Collated donated clothes and stationery to distribute to two orphanages

Ngee Ann Polytechnic   Apr 2016 - Dec 2016
- **Floorball Club, <u>Member</u>**
- **Shooting Club, <u>Member</u>**

AWARDS / ACHIEVEMENTS / RECOGNITION

- Terasaki Electric Silver Medalist (2019)
- Edusave Merit Bursary (2017 - 2018)
- Top in 7 Modules Accomplishment in NP: (1) Computing Programming (2) Computer Aided Drawing (3) Innovation Toolkit 1 (4) Innovation Toolkit 2 (5) Engineering Mathematics 1 (6) Engineering Mathematics 3A (7) Advanced PLC & Networking (2016 - 2018)

SKILLS

- **Languages**: Fluent in English and Conversational Proficiency in Chinese (Mandarin)
- **Software Programming**: Python, JavaScript, C Language, PostgreSQL
- **Software Applications**: Microsoft Office 2019, Apple iWork

Online Certification

- Web Design for Everybody: Basics of Web Development & Coding Specialisation
- PostgresSQL for Everbody Specialisation