TAN LING JEN

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PROFESSIONAL SUMMARY

A highly motivated Year 3 Electrical Engineering student with internship experience in software development and systems engineering. Actively looking for a software engineering internship from 8 January 2024 to June 2024 (Industrial Attachment) to pursue my passion and dedication in software development and engineering.

WORK EXPERIENCE

Systems Engineer, Intern   **NCS Group (NCS Engineering)**   **May 2023 - Jul 2023**
- Constructed interactive front-end UI for an active enterprise-level web application project utilizing React.
- Developed RESTful API endpoints in ASP.NET Core with error handling and response mechanisms implemented.
- Efficiently managed systems hardening of macOS devices for project deployments utilizing bash scripting.
- Troubleshooting and maintenance of hardware systems deployed across multiple exhibitions.

Associated Skills: React, JavaScript, ASP.NET Core, C#, HTML, OS Hardening, Bash, Troubleshooting

Business Solution Team, Intern   **Panasonic R&D Center**   **May 2022 - Jul 2022**
- Managed the Requirements Analysis and System Architecture documentation.
- Co-authored the UI and Wireframe Design documentation.
- Modeled the prototyping and testing of LED display panel (Soft Soldering).

Associated Skills: Technical Documentation, Requirements Analysis, System Architecture

NSF Training Instructor, 3rd Sergeant   **Singapore Armed Forces (SAF)**   **Apr 2019 - Apr 2021**
- Completed the Logistics Specialist Cadet Course (Transport) and achieved 3rd Sergeant rank.
- Oversaw and managed over 300 transport trainees on course in the School of Transport and Supply (STS Sembawang Camp).
- Completed SAF Class 3/4 Driving Course at ST Engineering Land Systems.

Associated Skills: Leadership, People Management, Effective Communication

EDUCATION

Bachelor of Engineering   **National University of Singapore (NUS)**   **Aug 2021 – Present**
- Major in Electrical Engineering, specialization in Internet of Things (IoT)
- Academics: GPA 4.28 / 5.00 (Honours with Distinction)
- Expected Graduation: May 2025

Relevant Modules: Programming Methodology I (*Python*), Introduction to Machine Learning (*Python*), Microcontroller Programming and Interfacing (*C*), Data Science for the Internet of Things (*Python*), Data Engineering Principles (*Python*)

GCE A-Level   **Temasek Junior College (TJC)**   **Jan 2017 - Dec 2018**
- H2 Physics, H2 Chemistry, H2 Mathematics, H1 Economics, H1 General Paper, H1 Project Work, H1 Chinese
- Represented the college in the National Inter-School Tennis 'A' Division Championships in 2017 and 2018.

PROJECTS

IW Project (EG2606B Module): Mobile Application Development   **Aug 2023 – Present**
- Developing a mobile application – Personal Finance Manager, an app designed to make budgeting and expense tracking simplified and efficient, with the goal of helping users achieve financial responsibility.
- Learning full-stack mobile application development and UI/UX design independently.

Associated Skills: Flutter, FlutterFlow, Dart, Firebase (Firestore, Cloud Functions), Figma, UI/UX Design

Portfolio Website: https://github.com/Jen999/my-portfolio   **Jun 2023 - Jul 2023**
- Self-directed digital portfolio project showcasing work experiences, skills, and projects.
- Learnt and applied front-end tech stack independently for web development.
- Implemented interactive and responsive design to enhance visual appeal and user experience.

Associated Skills: React, JavaScript, HTML, CSS

SKILLS & INTERESTS

- **Skills:** Python, React, JavaScript, Flutter, FlutterFlow, Dart, Firebase, HTML, CSS, Git, Web Development, Troubleshooting, OS Hardening, Technical Documentation, Figma, UI/UX Design, Mobile App Development
- **Languages:** English (Native), Mandarin (Proficient)