Tng Renjie (Singaporean)
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WORK / INTERNSHIP EXPERIENCE

Synapxe Pte Ltd

Systems Analyst   Sept 2024 - **Present**

- Provide primary support to end-users, resolving application-specific and cross-team issues efficiently.
- Design, build, test, and implement system workflows and changes to meet organizational needs.
- Act as a liaison between end-users, business stakeholders, and Epic representatives, ensuring alignment on deliverables and workflows.
- Conduct training sessions, troubleshoot technical issues, and maintain communication with leadership on project progress.
- Collaborate with teams to ensure the system meets business goals and operational requirements.

Infineon Technologies Asia Pacific Pte Ltd

Digitalisation / Automation Project Engineer (Internship)   May - Dec 2022

- Contributed to the development of inventory database web application, including potential future expansion.
- Enhanced productivity by digitalising internal processes utilising **Python** (Flask), **MySQL**, and Red Hat OpenShift.
- Used Flask-Login to provide Role-Based Access Control (RBAC) for secure access management.
- Managed the entire project lifecycle using project management software, KLUSA, and successfully completed the project one month ahead of schedule.
- 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.

EDUCATION

Nanyang Technological University (NTU)   Aug 2021 - Jun 2024

- **Bachelor of Engineering (Electrical and Electronic Engineering)**
- Specialisation: **Info-Communications Engineering (Computer Engineering)**

Online Certification (Coursera)

- Google UX Design Specialisation (2024)
- Google Project Management Specialisation (2024)
- Web Design for Everybody: Basics of Web Development & Coding Specialisation (2024)
- PostgreSQL for Everybody Specialisation (2023)
- Python Basics (2022)

Ngee Ann Polytechnic (NP)   Apr 2016 - May 2019
- **Diploma in Electrical Engineering**

ACADEMIC / MODULE / PERSONAL PROJECTS

NTU Final Year Project: *Database Management Web Application*   Aug 2023 – Jun 2024

- Utilised **JavaScript** (SvelteKit) to create a dynamic dashboard for real-time data visualisation and Excel integration.
- Utilised Chart.js to create advanced data visualisation, transforming raw data into actionable insights.
- Developed a strong backend using Prisma with **PostgreSQL** for efficient data management and seamless API integration.
- Crafted responsive, user-friendly interfaces to enhance overall user experiences and garner positive feedback.

Google x dEEEvelopers Tech4Tomorrow Hackathon: *RetrenchGoWhr*   Mar 2024
- Developed a responsive web application using **JavaScript** (SvelteKit) to assist users in finding relevant job roles and upskilling opportunities based on resume and work history.
- Utilised Google Cloud's Vertex AI Gemini for natural language prompting and processing.
- Implemented a cloud function to perform NLP on pre-labelled job data, returning an array of job titles and relevant roles.
- Integrated the SkillsFuture API to suggest courses and training programs for users to upskill in identified areas.
- Achieved 2nd runner-up among 24 teams, showcasing strong teamwork and competitive spirit.

SAF Project: *Reporting Sick Telegram Bot*   Apr 2021 - Aug 2021
- Developed and deployed a bot to optimise the process from personnel to duty officer, decreasing the need for manually crafting messages by 90% using **JavaScript**.
- Implemented bot for battalion usage, streamlining communication and enhancing operational efficiency.

NP Final Year Project: *Web-based Video Conferencing - Telehealth Focused*   Oct 2018 - Feb 2019
- Designed and developed a web application enabling peer-to-peer video conferencing using **HTML**, **CSS**, and **JavaScript**.
- Implemented WebRTC to enable real-time audio and video communication.
- 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.

SKILLS

- **Languages**: Fluent in English and Conversational Proficiency in Chinese (Mandarin)
- **Programming Languages**: Python, JavaScript
- **Web Development**: Flask, Node.js**,** Svelte, Chart.js, Tailwind CSS, Bootstrap
- **Version Control & Databases**: Git, MySQL, PostgreSQL, Prisma
- **Development Tools & Utilities**: TypeScript, Prettier
- **Software Applications**: Apple iWork, Microsoft Office 2023, Figma, Sketch