Teng Shin Shoon, Nicholas

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EDUCATION

University of California, Berkeley Extension — **Singapore**
- Immersive Program in Entrepreneurship — **Jan 24 to May 24**

Singapore University of Technology and Design (SUTD) — **Singapore**
- Master of Science (Technology Entrepreneurship) — **Sep 21 to May 26**
- Bachelor of Engineering (Computer Science and Design)
- SUTD Technology Entrepreneurship Program (STEP) Scholar
- Focus Track: Software Engineering

WORK EXPERIENCES

IT Solution Development Intern, 1TCC — **Palo Alto, CA**
A fintech startup that optimizes their client's balance sheets by providing liquidity and capital efficiency. **May 24 to Aug 24**
- Designed and implemented an AWS DynamoDB structure to store financial data for 300+ public tickers, each with 12 data categories. Automated daily updates using Lambda functions to populate and refresh data via API calls.
- Enhanced an internal GenAI tool for analyzing and identifying potential clients, increasing overall effectiveness by 40%.
- Developed a prototype static internal tool into a full-stack web application using Dash, Flask, and MySQL. Deployed it remotely via AWSElastic Beanstalk and RDS.

Technology Analyst Intern, SimplifyNext — **Singapore**
A consulting and technology company that provides automation, AI solutions and analytics as a service. **Aug 23 to Dec 23**
- Developed and implemented Robotic Process Automations (RPAs) using UiPath to automate critical tasks for clients, significantly boosting operational efficiency.
- Routinely managed and troubleshot over 20 RPAs for a regional bank on a bi-daily basis, ensuring smooth workflows.
- Optimized a complex RPA process for a client by integrating tailored conditional logic, resulting in a 15% reduction in process time and freeing up valuable time for the client's team.

PROJECTS

AI Journalling Web Application, MERN Stack with Astro — **Dec 24 to Jan 25**
Full Stack Developer
- Designed and developed an AI-powered journalling platform to enhance the user experience by fostering reflective and meaningful self-expression.
- Integrated OpenAI's Assistant API to implement a live chat feature that uses active listening techniques and thoughtful prompts to engage users in discussing their day.
- Implemented real-time updates with WebSockets, allowing users to have a continuous conversation with the Ai assistant.

Python Practice Web Application, Svelte Astro Deno Docker — **Sep 24 to Sep 24**
Full Stack Developer
- Developed a Python programming practice platform featuring challenging tasks with real-time grading and feedback for users.
- Built the application using Docker, configured for both development and production environments, with NGINX as a load balancer and proxy for optimized request routing.
- Implemented WebSockets to deliver live updates on feedback, using a publish-subscribe pattern for asynchronous task handling.

Bloglist Web Application, MERN Stack — **Feb 22 to Feb 23**
Full Stack Developer
- Built a full stack web application with MERN stack and MySQL integration.
- Implemented a RESTful API architecture following standard HTTP methods and URL structures for CRUD operations, ensuring a uniform interface and stateless communication for efficient client-server interactions.
- Encompasses user authentication functionalities including signup and login capabilities, alongside the ability to like blogs. Additionally, empowers blog creators with the autonomy to delete their own content seamlessly.

ADDITIONAL INFORMATION
- Technical Skills: Git, Docker, UiPath, Python, Javascript, React, TailwindCSS, Svelte, Astro, MERN Stack, MySQL, PostgreSQL, Deno, AWSLamba, AWS RDS, DynamoDB, AWS Beanstalk,
- Languages: Fluent in English and Mandarin