

Nicholas Teng

Backend Developer

Singapore | +65 8388 4932 | nicholastengshin@hotmail.com | [LinkedIn](#) | [Portfolio](#)

Driven backend developer seeking to broaden experience within the dynamic tech industry. Proficient in fullstack development and software construction as well.

Education

University of California, Berkeley Extension

Berkeley, CA

Immersive Program in Entrepreneurship

JAN 2024 - MAY 2024

Coursework: Design Thinking and Prototyping

Singapore University of Technology and Design (SUTD)

Singapore

Bachelor of Engineering in Computer Science and Design (CSD)

SEP 2021 - APR 2026

Coursework: Algorithms, Elements of Software Construction, Machine Learning

Singapore University of Technology and Design

Singapore

Master of Science in Technology Entrepreneurship

SEP 2021 - APR 2026

Coursework: Technology Entrepreneurship, Networking, Product Market Fit

Experience

IT Solution Development Intern — 1TCC, U.S.

MAY 2024 - AUG 2024

- 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 companies and identifying potential clients, increasing output reliability and 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 AWS Elastic Beanstalk and RDS.

Technology Analyst Intern — SimplifyNext, Singapore

AUG 2023 - DEC 2023

- Developed Robotic Process Automations (RPAs) to automate key tasks for inputting data into the client's backend.
- Maintained and debugged existing RPA code for seamless client workflows.

Web Application Projects

Full Stack Developer — Building a Bloglist, Personal Project

FEB 2024 - MAR 2024

- Built a full stack web application with MERN stack, and MySQL integration.
- For MySQL, Implemented normalization with three tables for users, blogs, and their relationships, reducing redundancy and enhancing efficiency, scalability, and maintainability.
- 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 only own content seamlessly.

Software Test Engineer — Software Construction, SUTD

MAY 2023 - AUG 2023

- Spearheaded efforts in designing the Sequence and Use-Case Diagrams for the business account of our web application project that helps to advertise promotions, laying the foundation for system testing.
- Utilized Cypress as the primary software testing tool for conducting comprehensive system tests on both user and business accounts, thereby identifying and resolving bugs within the application.

Technical Skills & Activities

Languages:

English, Mandarin

Technical Skills:

Python, Javascript, MySQL, MongoDB, React, Express, Node.js, UiPath, Git, AWS
DynamoDB, AWS Lambda, AWS Elastic Beanstalk, AWS RDS

Activities:

SUTD Taekwondo Vice-President (Feb 2022 - Dec 2023), SUTD Freshmore
Representative (Feb 2022 - Feb 2023)