Casper Ng

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EDUCATION

National University of Singapore — Singapore
Bachelor of Computing in Computer Science, 2nd Major in Mathematics — *Aug. 2023 – Present*
- Grade: 5.0/5.0
- Relevant Coursework: Discrete Structures, Programming Methodology, Data Structures and Algorithms, Multi-variable Calculus, Linear Algebra

Hwa Chong Institution — Singapore
Singapore - Cambridge GCE A Levels — *Jan. 2015 – Dec. 2020*

PROJECTS

Web Forum | *React, Express, TypeScript, PostgreSQL, Material-UI* — Dec. 2023 – Jan. 2024
- Developed a full-stack web application using with Express serving a REST API and React written in TypeScript as the frontend
- Implemented JWT Authentication for user account management
- Incorporated Material-UI elements in the frontend

Portfolio Website | *NextJS, TypeScript, TailwindCSS, Framer Motion* — Nov. 2023 – Dec. 2023
- Created a personal portfolio website hosted here
- Incorporated Framer Motion to create a more responsive and interactive UI
- Used TailWindCSS for styling the frontend

HACKATHONS

Hack and Roll 2024 | *VBA* — Jan. 2024
- Collaborated in a group of 4 to replicate a neural network in Excel given pre-processed data
- Handled the VBA functions to perform the necessary calculations, such as forward and backward propagation and relevant matrix operations

PSA CodeSprint 2023 | *Python, NumPy* — Sep. 2023
- Created a recommendation algorithm with collaborative filtering using NumPy to match juniors to senior staff for cross-department mentoring

EXPERIENCE

Platoon Commander / Staff Officer — Dec. 2021 – May 2023
607 SQN, RSAF — *Singapore*
- Responsible for the training and welfare of security troopers for Paya Lebar Air Base
- Compiled and reviewed the squadron's Standard Operating Procedure (SOP) to streamline operational processes
- Ensured zero audit findings during the squadron's annual audits, including No-Notice Audits, by demonstrating clear alignment of squadron processes with RSAF guidelines

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript/TypeScript, HTML/CSS
Frameworks: React, Node.js, Express, NextJS, TailwindCSS
Libraries: Material-UI, NumPy, Framer Motion