BENJAMIN CHRISTOPHER TOH

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EDUCATION

Bachelor of Engineering (Hons), Computer Engineering,   **Aug 2021 – May 2025**
National University of Singapore
- Minor in Data Engineering
- Current CAP: 4.7 / 5.0
- **Relevant Coursework:** Programming Methodology (Python), Data Structures & Algorithms, Software Engineering & OOP, Introduction to Machine Learning, Computer Networks, Digital Design

TECHNICAL SKILLS

- **Programming Skills:** C/C++, Javascript, Python, Java, HTML, CSS, PostgreSQL
- **Database/ Cloud:** MongoDB, PostgreSQL, Microsoft Azure, Google Cloud
- **Frameworks:** Reactjs, React Native, Next.js, Flask, TailwindCSS, Nodejs, Express
- **Tools:** Git/GitHub, Docker, Adobe Photoshop, Adobe Illustrator, Figma

WORK EXPERIENCE

Software Engineer Intern – Trilogy Technologies   **May 2023 – Present**

- Designed and built backend architecture single-handedly with Microsoft Azure IoTEdge and Functions to handle high volume data processing and scalability for an IoT monitoring system.
- Developed a full-stack web application for an MNC to monitor and analyse IoT sensors using React, Flask and PostgreSQL with user authentication and analytical tools.
- Prototyping a coordinate system from scratch with Ultra-Wideband technology and ESP32 microcontrollers for high precision indoor location calculations.

RELEVANT PROJECTS

Thriftr – Self-initiated:
- A mobile app which allows users to shop and sell second-hand clothes with a Tinder-inspired matching gimmick of swiping using React Native Expo, Firebase and TailwindCSS.

Trippin – Self-initiated:
- Developed a web app to allow users to plan trips for location-based and real-time collaborative planning using Next.js, Nodejs, Express, MongoDB and Google Maps API for google locations and auto-complete.

myKampung – SUTD What the Hack 2022 Hackathon Winner:

- Achieved first place in this 48-hour hackathon with over 200+ participants.
- Developed a mobile app to allow residents of the same HDB block to connect with announcements and utility groups using React Native and Firebase.

LEADERSHIP EXPERIENCE

Raffles Hall Volunteer Corps Volunteer – NUS Raffles Hall   **Aug 2021 – April 2023**

- Organised a fundraiser as Head of Publicity to raise funds for HCA beneficiary which exceeded expected funds raised.
- Received the Merit and Campus Choice Awards for the annual NUS Student Life Award for the CCA through Project Rhino as a volunteer to tutor underprivileged children online.

Signal Detachment Commander – Singapore Armed Forces (National Service)   **Apr 2019 – Feb 2021**

- Managed a team of 12 through military training and activities, ensuring top discipline and teamwork to achieve historical high scores for Rotational Evaluations.
- Achieved "Best Commander of the Month" for June for contributions to the unit – 16C4I Battalion.