

K-Tyn Tang

FULL STACK ENGINEER

Versatile tech enthusiast with an appetite for challenging work. I help people realise their vision through practical programmatic solutions. I enjoy distilling problems down to their root causes and identifying resource-effective angles of approach.

Employment History

Software Engineer, Singapore-MIT Alliance for Research & Technology

APRIL 2024 — PRESENT

- Full-stack development of geospatial web application with both serverless cloud-native data and traditional WMS services.

Head Software Engineer, NACT Engineering

DECEMBER 2022 — APRIL 2024

- MERN-stack development and design of low-latency, real-time drone control web app with high-availability internationally.
- Programmed authentication protocols, and session management to securely deliver data to clients.
- Implemented staging environment with automated testing that increased code coverage and reduced production vulnerability.
- Created a CI/CD pipeline that reduced time-to-deployment to under 30 minutes with zero-downtime.
- Created architecture to minimize dependencies between components; prioritizing flexibility and scalability per startup needs.

Nanochip Production Lead, Silver Factory Technology

MARCH 2021 — MAY 2022

- Developed, maintained and updated automated dashboard for production yield analysis and inventory management system for traceability and product tracking.
- Increased production throughput by 300% in 7 months:
 - Analysed shortcomings and set up R&D projects required for long-term production forecasts.
 - Scheduled production for efficient coordination between 5 operations teams to meet production goals
 - Supervision of up to 10 concurrent R&D trials.

Research Assistant – Insect Feed Nutrition, AgriProtein Singapore

OCTOBER 2020 — FEBRUARY 2021

- Researched and conducted preliminary development of Black Soldier Fly nutrition program to ensure optimal protein/fat content for waste valorization and breeding,
- Supplier sourcing and acquisition for supermarket waste feedstock.
- Performed pilot plant operations for the Entomology department.

Education

B.Sc. (Hons) in Biological Sciences with 2nd Major Food Science & Technology, Nanyang Technological University, Singapore

JUNE 2015 — JULY 2019 (GRADUATED WITH HONOURS DISTINCTION)

Contact

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Links

[Portfolio](#)

[LinkedIn](#)

Skills

React - Redux - Zustand

Javascript - Typescript

CSS - Tailwind - HTML

Three.js - R3F

Node - Express - Nginx - Python - Flask

Mongo - Redis - PostgreSQL

Docker - Github Hooks/Actions - Firebase - AWS

Playwright - Puppeteer - Jest - Selenium