

SAW YE HTET

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PROFESSIONAL SUMMARY

Software engineer and IT diploma graduate based in Singapore, building **full-stack web applications** with React, TypeScript, and Node.js, plus Unity training simulations shipped on Meta Quest for live maritime safety research. Seeking a full-stack or backend software engineer role; available immediately (S Pass sponsorship required).

EDUCATION

Singapore Polytechnic
Diploma in Information Technology, GPA 3.55/4
Relevant Coursework: Software Development, Databases (SQL), Networking, Linux.
Certification: AI Ethics & Governance (Associate).

Singapore
March 2023 – May 2026

SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL, C#
Web & Backend: React, Node.js, Express, MongoDB, REST APIs, LLM APIs (Gemini), Browser Extensions (MV3)
Tools: Git & GitHub, Docker, Vite, Playwright, pytest, Linux CLI, Postman
VR / 3D: Unity, XR Interaction Toolkit, OpenXR, Meta Quest, Hand Tracking

PROJECTS

Mood Palette – Ambient Music and Colour Palettes | React 19, TypeScript, Node.js, Express, MongoDB, Gemini 2026

- Built a full-stack web app where Google Gemini scores a written reflection across 12 moods and generates a matching colour palette. Live at moodpalette.app.
- Built an Express 5 and MongoDB backend with a keyless resolver that finds one matching track across Spotify, Apple Music, and YouTube Music from the public iTunes and Deezer catalogues.
- Migrated guest sessions from local state into MongoDB on first login so history survives sign-up, with a Playwright end-to-end suite guarding the flow.

Job Helper for LinkedIn – Browser Extension | JavaScript, Manifest V3, Playwright 2026

- Published a Chrome and Firefox extension that checks each LinkedIn job in Singapore against a user's experience, education, and work pass, flagging citizen-only roles and pay below the MOM S Pass and EP minimums.
- Wrote parsers that turn free-text salary, experience, and education requirements into comparable values, guarded by 200+ tests including Playwright runs of the page script and popup.

Tokey – Open-Source CLI | Python, pytest, MIT License 2026

- Published a real-time per-prompt token cost tracker for Claude Code with 350+ tests, open source at github.com/sawyehtet-dev/tokey.
- Prices each turn by its own model so mixed-model sessions add up, and stores spend history in SQLite.

EXPERIENCE

Unity VR Developer Intern (Research Assistant)
Centre of Excellence in Maritime Safety (CEMS)

- Primary Unity VR developer for methanol bunkering (refuelling ships with methanol) and emergency-response training: designed, built, and maintained scenarios used in 12 lab sessions over 11 months.
- Implemented a modular C# state machine for locomotion, grab/interact, and multi-step scenario flow, tuning LOD and draw call batching to hold 90 FPS on standalone Meta Quest.
- Integrated XR Interaction Toolkit and OpenXR input, and wrote setup guides so centre staff could run demos without an engineer.

Singapore
April 2025 – February 2026