Kasitphoom Thowongs

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Educational Background

University of Glasgow — Glasgow, United Kingdom
BSc Honours in Software Engineering • GPA: 18.10 / 22.00 (1st honours) — Sep 2024 – May 2026

King Mongkut's Institute of Technology Ladkrabang (KMITL) — Bangkok, Thailand
BEng in Software Engineering • GPA: 3.59/4.00 (1st honours) — Aug 2022 – May 2026

Work Experience

Readyplanet Public Company Limited — Bangkok, Thailand
Software Developer — Jun 2025 – Aug 2025
(Next.js, Prisma ORM, MongoDB, Nest.js, Elasticsearch Models, Nginx, Docker, Mongo Atlas)

- Developed full-stack features in a 6-person team, focusing on building production-ready modules end-to-end (frontend, backend, Database).
- Optimized e-commerce sites to score 90+ on Google PageSpeed Insights, enhancing SEO and search visibility.
- Built a multi-tenant customer-facing CMS component with reusable content structures and subscription/license support.
- Designed and implemented a flexible product tagging system supporting advanced filtering and personalization.
- Integrated with a hybrid search model using semantic embeddings (Mongo Atlas), increasing Thai-language search hit rates by 80%.
- Configured Nginx redirects in Docker to fix SEO issues and supported deployment to EC2.

MapGenie - University of Glasgow Team Project - Thales — Glasgow, United Kingdom
Lead Software Developer, Lead Demonstrator — Sep 2024 – March 2025
(Electron, Generative AI, Next.js, GitLab CI/CD, Docker, QGIS, Photon, Overpass)

- Led the system architecture and all client demonstrations, guiding a 6-person team across backend, frontend, and AI work while clearly presenting the full workflow to the customer.
- Collaborated with Thales UK to develop a proof-of-concept software enabling users to generate offline-ready, area-specific QGIS maps from natural language queries.
- Integrated GPT-4o-mini with custom sockets (Hungryface AI) to convert user input into Overpass QL queries and visualized data with QGIS, exceeding client expectations.
- Packaged and deployed through Dockerised GitLab CI/CD pipelines, following agile sprints with regular client engagement.
- Awarded Grow Prize (Best Idea) and recognized with the Level 3 Honours Team Project Prize (2024) for presenting a concept with strong business potential and real-world impact.

Readyplanet Public Company Limited — Bangkok, Thailand
Software Developer Intern — May 2024 – Aug 2024
(Core Web Vitals, Generative AI, React.js, React Redux, Tailwind CSS, Express.js, Next.js, Nest.js, Meta API)

- Leverage generative AI with engaging prompts to efficiently track sales conversation conversions on Facebook and Instagram via Messenger and Instagram Direct Message.
- Developed a system that allows users to select conversions generated by the generative AI system and seamlessly transfer them to their Meta ads account.
- Developed a automatic testing system for SQL injection on API routes using SQLMap.
- Prioritised Core Web Vitals to create custom E-Commerce website and landing pages, aiming to achieve a high-speed website based on PageSpeed Insights. It has been tested and achieved a 40% higher conversion rate.

Skill

Programming Languages: PHP, TypeScript, JavaScript, Python, C, C++, Java
Web Development: Next.js, React.js, Tailwind CSS, Angular, Figma, Express.js, Nest.js, FastAPI, Nginx
Databases: MySQL, PostgreSQL, MongoDB, Prisma ORM
Search & Optimization: Hybrid Search, Elasticsearch, PageSpeed Optimization
Cloud & DevOps: AWS (EC2, S3, CloudFront), Docker, Nginx, Cloudflare, Bitbucket, GitLab CI/CD, Vercel

Project

All-in-one learning platform website — Github: SE Web Github
HTML, JavaScript, CSS, FastAPI (Python), ZODB (Python), Node.js, WebSocket, WebRTC — Website: SE Web

- Developed a portal for course and assignment management, enabling students and instructors to oversee multiple courses, post and track assignments, and access announcements and resources in a unified interface.
- Implemented built-in video collaboration rooms with interactive personal and shared whiteboards, supporting real-time discussion, brainstorming, and teamwork.

Leadership/Extracurricular

GUTS DYHTG Hackathon - 2nd place from GUITARGUITAR Limited — GitHub: AI Music Practice Tools
Develop an AI-based system that provides musicians with songs, chords, and lyrics tailored to their preferences, aiming to deliver a new and engaging experience for users.