**Nguyen Quang Huy Pham**

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## Education

**Swinburne University of Technology** Hawthorn, Australia
Bachelor of computer science, Software Development. GPA: 3.65
Awards: Swinburne Emerging Leader Program - 2024, Swinburne International Excellence Undergraduate Scholarship - 2022

## Experience

**Lyra Technologies** Junior Software Developer
Projects & Clients — Remote / Sydney, Australia:
Techstack: NextJS, TypeScript, Prisma, Tailwind CSS, Tailwind Opensource Library, TRPC

Tipriyo.ai
- Engineered credit-based logic for real-time image generation and multilingual support using Supabase and GPT API.
- Designed scalable backend for handling high-volume image processing with optimized SEO integration.

Soma Capital
- Developed a high-performance news scraping system with GPT integration, reducing data processing lag by 60%, reduced waiting time by 50% compared to previous method.
- Collaborated with cross-functional teams to streamline backend/frontend integrations.

VirtualStaging.art
- Integrated advanced virtual staging API with a seamless UI for real-time property enhancement.
- Led image upload and rendering system that supported large image data processing.

Paraform.com
- Embedded GPT-4 Mini to monitor real-time data flows and auto-detect user errors.
- Developed internal dashboards for admin-level data monitoring and analytics.

**Personal project**

Mango AI
Techstack: VueJS, Bootstrap CSS, Supabase, Gemini AI API, Google OAuth
- Implemented responsive UI, dynamic pagination, and state management with Pinia for a seamless user experience.
- Integrated secure authentication with Google OAuth and email/password login options.

GitHub: https://github.com/bbi3mn4u69/Mango-AI-chatbot

Trading Platform
Techstack: React, Tailwinds, NodeJS, D3JS chart, Solidity smart contract
- Built a responsive crypto trading platform with Tailwind CSS, featuring animated UI, search/filter tools, and credential-based authentication.
- Integrated smart contracts to handle real-time buying/selling, transaction history, and user balance updates on the blockchain.
- Visualized market data with D3 candlestick charts and interactive tooltips, and implemented robust error handling using React Toast.

GitHub: https://github.com/bbi3mn4u69/COS30049-Computing_Technology_Innovation_Project

Green House IOT Application
Tech Stack: Arduino C++, Python, MQTT (Mosquitto), T3 Stack (Next.js, TypeScript, tRPC, TailwindCSS, Prisma), Open-Meteo API

- Developed a full-stack IoT smart greenhouse system with Arduino, MQTT, and a T3 web dashboard for real-time environment monitoring and control.
- Enabled cloud-based automation using weather APIs and integrated a Discord bot for remote commands, live sensor updates, and AI-driven support.
- Designed secure, modular infrastructure with encrypted API endpoints, efficient pub/sub messaging, and tested logic across Python, Arduino, and frontend layers.

**Technical:** NextJS, Typescript, Javascript, C, C++, C#, Prisma ORM, TRPC, DB management, Python, HTML, CSS, Ruby, SQL, Kotlin, Swift, PHP.
**Personal portfolio:** https://new-portfolio-lake-sigma.vercel.app/
**Github:** https://github.com/bbi3mn4u69
**Language:** Vietnamese, English