

SAHANON PHISETPAKSIT (PING)

Software Engineer/ Full-stack Developer

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Software Engineer with 3+ years of experience delivering secure, production-grade SaaS platforms for banking and government sectors. Specialized in full-stack development (React, Node.js, NestJS) with strong DevOps capability (Azure, Docker, CI/CD). Master's-qualified in Software Engineering from the University of Otago. Actively seeking a full-time software engineering role with an accredited NZ employer. **Visa status:** 3 years Post-Study Work Visa (open work rights)

Skills

Modern Languages: Python (FastAPI, Django), JavaScript/TypeScript (React.js, Next.js, Ionic), Node.js (NestJS), Dart (Flutter).

System Integration: API Development, Secure Data Transfer, ETL/ELT Pipelines, and System Design.

Infrastructure & Tools: Docker, Azure, GitHub Actions (CI/CD), Git, Nginx.

Databases: PostgreSQL, MongoDB, Prisma.

Quality Assurance: Jest Test Suites, SonarQube Static Analysis, Automated Evaluation Pipelines

Experiences

National Digital ID Co.,Ltd

Bangkok

Full-Stack Developer

Dec 2022-Jan 2026

- Designed, built, and maintained a secure SaaS platform integrating enterprise banking systems with government identity services, supporting ~100 active corporate users.
- Create Proof of Concept for verifiable credential wallet application (Ionic).
- Implemented secure data exchange workflows, including validation, transformation, and compliance controls for regulated digital transactions.
- Built integration tooling and internal utilities to support customer onboarding, testing, and verification of external data connections.
- Developed backend services using Node.js and NestJS, focused on reliability, traceability, and fault handling across system boundaries.
- Deployed and operated services using Azure, Docker, and CI/CD pipelines, improving release reliability and reducing operational risk.
- Contributed to system design decisions around data integrity, authentication, and auditability in high-trust environments.

Research

Comparative Analysis of Iterative Prompt Refinement and Multi-dimensional Quality in LLM-Generated Code

Master's Dissertation — University of Otago, 2025

- Designed an automated evaluation pipeline in Python to assess LLM-generated code quality across 30 JavaScript tasks.
- Measured correctness, maintainability, and security using Jest test suites and SonarQube static analysis.
- Evaluated behaviour of GPT-4.1, Claude 4 Opus, and Gemini 2.5 Pro under iterative refinement workflows.
- Identified non-monotonic effects of prompt iteration on correctness and overall quality.
- Produced statistical analysis and visualisations to support model-aware refinement strategies.

Teaching & Academic Contributions

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| Kasetsart University, Department of Computer Engineering | Bangkok |
| <ul style="list-style-type: none"> - Supported undergraduate courses in software engineering, data analytics, and web development. - Delivered guest lectures on web systems and passwordless authentication. - Mentored students on system design, backend development, and secure application practices. | |

Educations

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| University of Otago | New Zealand |
| MAppSc with Credit in Software Engineering | 2025 |
| Kasetsart University | Bangkok |
| B.Eng (Software and Knowledge Engineering) with Second Class Honors | 2019-2022 |

Community Engagement

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| TechMate | New Zealand |
| Technology Learning Facilitator | Mar 2025-Present |
| <ul style="list-style-type: none"> - Developed introductory technology training sessions and materials tailored for community members. - Offered practical assistance with the use of computers, mobile devices, and widely used software programmes. - Refurbished and repurposed donated laptops to facilitate redistribution to individuals in need. | |
| Dunedin Botanical Garden | New Zealand |
| Information Center Staff | Jun-Oct 2025 |
| <ul style="list-style-type: none"> - Operated the visitor information centre, managing sales, payments, and donations. - Assisted visitors by providing accurate information and resolving inquiries. - Ensured a welcoming experience while supporting day-to-day operations. | |