

PHANUDET SUEAPHUEAK

Software Development | AI/ML | Cloud & DevOps

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Languages: English — B1 (TOEIC 665) | Thai — Native



PROFILE

Computer Engineering graduate with hands-on experience in **full-stack development, AI/ML, and cybersecurity** through academic and personal projects. Experienced in building web applications, implementing machine learning models from scratch, and working with Linux and cybersecurity tools. **Certified in Linux and Cisco Cybersecurity Essentials**. Seeking an entry-level role in **software development, cloud, or cybersecurity** to apply my skills and gain real-world experience.

ACCOMPLISHMENTS

- **E-Commerce Platform:** Built a **Full-stack e-commerce** platform from scratch with 10+ core modules, including shopping cart, payment, shipping, OAuth authentication, and address management, using **Next.js, Node.js, and PostgreSQL**. This project gave me a strong understanding of how different components of a modern web application are designed, integrated, and operated from the ground up.
- **POS System:** Worked as a **Frontend Developer** on a restaurant POS web application, focusing on understanding restaurant service workflows and exploring how software can reduce operational costs by minimizing the need for dedicated physical POS equipment.
- **Skill Bridge:** Worked as a **Project Owner**, gathering and analyzing requirements from stakeholders to define the product direction. The project was inspired by **JobDB**, but specifically designed to improve employment opportunities and accessibility for people with disabilities.
- **EdVerra:** Led the **Software Development Team** and was responsible for system design and technical direction. This project strengthened my ability to identify real pain points, determine where AI can provide meaningful value, and evaluate whether AI is actually necessary rather than adopting it simply because it is a trend. I also learned to consider alternative approaches when an AI-based solution is not the most practical choice.
- **MLP, Genetic Algorithm & Fuzzy Logic:** Implemented a **Multilayer Perceptron (MLP) neural network from scratch without machine learning libraries**, applying **backpropagation, Genetic Algorithm (GA), and Fuzzy Logic** techniques to solve regression and classification problems. Evaluated models using **10-fold cross-validation** and applied GA to optimize MLP weights for **breast cancer classification using the WDBC dataset** across five different network architectures.
- **HomeLab:** Rebuilt an old PC into a personal **HomeLab** environment to learn **Proxmox, virtual machines, containers, and self-hosted services**. I also explored local AI to better understand how **GPU, VRAM, CPU, RAM, and storage** work together when running AI workloads and how hardware resources affect system performance.
- **Systems & Embedded Projects:** Developed an **Assembly-to-Machine translator and behavioral simulator** supporting arithmetic operations and recursive functions, while also building an **ESP32-based Useless Box** to explore IoT and embedded systems, gaining hands-on experience in **program execution, low-level computation, hardware-software integration, and sensor/actuator control**.

EDUCATION

Chiang Mai University — B.Eng. in Computer Engineering — GPA: 3.50 | Chiang Mai, Thailand

Technical Skills

Languages: TypeScript, C++, Java, Python

Frontend: React, Next.js, TailwindCSS

Backend: Node.js, Express.js, Laravel

Databases: PostgreSQL, SQLite, Redis

DevOps & Infrastructure: Docker, Proxmox VE, Cloudflare Tunnel, Tailscale, Nginx, Linux

Monitoring & Observability: Grafana, Dozzle

AI & Local LLM: Ollama, Open WebUI, RAG, Vector DB(Pinecone, ChromaDB)

Security & Networking: Kali Linux, Burp Suite, Cisco Packet Tracer

Tools: Git, Postman, Jira

Development Tools: VS Code, GitHub Actions, Swagger/OpenAPI

LICENSES & CERTIFICATIONS

HCCDA – Tech Essentials (Huawei Cloud) - 2025

Linux Essential (Cisco) - 2025

Cybersecurity Essentials (Cisco) - 2025