Technical Projects

VIA - Video Intelligence & Analytics | *React, TypeScript, Node.js/Express, n8n, Supabase, Google Apps Script*

- Designed and developed an end-to-end video evaluation platform integrating assessment workflows, AI-assisted analysis, and automated report generation.
- VIA (team project): video analytics web app with evaluation forms, role-based access and generated PDF/DOCX reports, v1 to v4. React, TypeScript, Supabase, n8n, Cloudflare R2.
- Built Node.js/Express and React integrations with Supabase, n8n workflows, and Google Apps Script, including large multipart video upload handling.
- Troubleshot CORS, HTTP 413, webhook payloads, Supabase RLS, database connectivity, and scoring/data-normalization issues.

IzuMind - AI Knowledge Management Platform | *Python, FastAPI, Ollama*

- Built backend APIs for video/transcript processing, summarization, knowledge extraction, and local LLM integration using Python, FastAPI, and Ollama.
- Designed processing workflows to transform transcript content into structured knowledge outputs for downstream use
- IzuMind: Python FastAPI backend that turns video transcripts into summaries, answers and Markdown reports. FastAPI, Ollama, faster-whisper.

Slip2Sheet - Personal Finance Tracker | Python, OCR, Google Sheets API

- Built a Python-based receipt-processing workflow for OCR extraction, expense categorization, and structured record synchronization with Google Sheets.
- Implemented daily summary and reflection-report flows to convert transaction data into usable personal finance insights.
- Slip2Sheet: reads payment slips with OCR and records them in Google Sheets. Python, OCR, LINE Bot, Docker.
- Izu Tarot: tarot reading web app that turns each reading into a shareable story image. React, TypeScript, Vite.

Production Engineering Highlights

- Investigated Kubernetes Pod BackOff, Kafka connectivity, and MongoDB/customer-profile issues using logs, metrics, and service health data.
- Used Grafana, Prometheus, and OpenTelemetry for production monitoring and RCA support.

Education

Master's Degree - Digital Network and Information Security Management (DNS)
| King Mongkut's University of Technology North Bangkok (KMUTNB) | Jul 2024 – Present · In progress

Bachelor's Degree - Information Technology
| Prince of Songkla University (PSU), Phuket Campus | Aug 2018 – May 2022 · Graduated | CGPA 3.29

Leadership & Research

- Former student club leader at Prince of Songkla University with experience in team coordination and event organization.
- API Abuse Detection using Hybrid Statistical–Machine Learning Techniques. Master's research at KMUTNB combining statistical methods (EWMA, CUSUM) with machine learning to detect API abuse.
- An assistance device for group travelers. Bachelor's final project at PSU: an ad-hoc wireless network (AODV) for tracking travelers and sending emergency requests without mobile coverage.

Infrastructure & Security Knowledge

- TCP/IP, DNS, VPN, routing, VLANs, cloud service models, OWASP Top 10, API security, IAM concepts, Incident Response, NIST RMF, RPO/RTO.