

VINDY ARIYA ANGGIONO

+65 89122837 · vindyanggiono59@gmail.com · linkedin.com/in/vindy-anggiono · github.com/Vindyang

EDUCATION

Singapore Management University (SMU)

Aug 2024 – Aug 2028

Bachelor of Science (Computer Science) — Specialization: Software Systems & Cybersecurity

Relevant Modules: Collaborative Software Development, Data Management, UI/UX, Data Structures & Algorithm, Discrete Math, Statistical Thinking for Data Science, Operating System.

EXPERIENCE

Farro Capital

Jun 2026 – Present

Software Engineer Intern (Work-Study Programme)

- Built a full-stack fund factsheet automation platform (FastAPI + React/TypeScript) replacing a multi-day manual Excel/PowerPoint workflow across 5 thematic equity funds with a single-operator, ~5-minute, fully auditable pipeline.
- Engineered an ETF look-through engine computing Top 5 Holdings and Sector Allocations by parsing portfolio valuations, downloading ETF constituent data, and combining weighted exposures with cross-holding deduplication.
- Developed an automated PDF statement ingestion pipeline with strict sequence validation, duplicate detection, and per-month audit-trail archiving; distributed outputs to SharePoint via Microsoft Graph API.
- Built *nav-parser*, a multi-custodian private-banking PDF parser supporting 15+ global banks (UBS, DBS, Goldman Sachs, etc.) with Mistral AI OCR fallback, cutting 2–4 hrs of manual data entry per statement to minutes.

Singapore Management University × HTX

May 2026 – Present

Research Assistant — IaC Security & AI Dataset Translational Project

- Performing evidence-grounded TP/FP triage on Checkov and Trivy findings across multi-cloud Terraform IaC (AWS, GCP, Azure, OCI, Kubernetes); established an 8-pattern false-positive taxonomy with a five-tier confidence calibration system tied to provider defaults and config-level attributes.
- Curating high-signal labeled datasets for AI-assisted IaC security review, enforcing schema-consistent annotation output and applying QA evaluation frameworks to ensure training data quality for security-focused LLMs.

ME-IT Solutions and Service

Feb 2024 – Mar 2025

Software Engineer

- Independently built an end-to-end HR platform consolidating applicant registration and staff onboarding across 3 departments, cutting administrative overhead by 35%.
- Implemented an AI system that scans schedule documents, extracts key data points, and integrates them into application forms, reducing manual processing time by 30%.
- Designed an interactive onboarding tutorial with multi-language plugin support across 3 languages, improving accessibility for a diverse user base.
- Hands-on experience in database design, optimization, and management across multiple production systems.

PROJECTS

PrivaStream, github.com/Saximn/privastream | Flask, WebRTC, Socket.IO, Faster Whisper, DeBERTa

Won Overall Champion & People's Choice Award

- Built a real-time PII security monitoring system detecting and redacting sensitive identifiers across live video streams using YOLO, InsightFace, and docTR OCR.
- Engineered a multi-modal pipeline processing simultaneous video and audio for comprehensive security posture monitoring at scale.

Sprout, github.com/Vindyang/openai-build-2026 | Next.js, TypeScript, Zod, Zustand, Gemini 3 Flash, Groq, @react-pdf/renderer, Vitest

OpenAI Build 2026 Hackathon — deployed at openai-build-2026-steel.vercel.app

- Singapore market-entry playbook generator for ASEAN founders: converts a 5-minute company profile into a complete advisory covering entity structure, MOM COMPASS visa scoring, industry licensing, tax incentives, banking roadmap, and a week-by-week timeline with risk matrix.
- Architected a deterministic TypeScript rules engine backed by source-cited, Zod-validated regulatory JSON so facts are never LLM-invented; AI narratives stream separately from Gemini 3 Flash Preview (Groq fallback) in a strictly explanatory role.

Agrigator, github.com/Vindyang/Agrigator | OpenAI Agents SDK, FastAPI, Next.js, Python

TinyFish × OpenAI Hackathon

- Autonomous agricultural intelligence agent for Indonesian smallholder farmers, aggregating real-time data from PIHPS (national price monitoring), BMKG (meteorological), and BBPOPT (pest forecasting) to surface timely, actionable market and crop-risk insights.
- Built a multi-source ingestion pipeline with parser modules for structured government APIs and unstructured news feeds; coordinated by an OpenAI Agents SDK orchestrator driving a FastAPI backend and Next.js frontend.

Omnishard, github.com/Vindyang/cs464-project | Go, Next.js, SQLite, Docker, GitHub Actions

- Distributed cloud storage platform sharding files with Reed-Solomon encoding across external cloud providers and reconstructing from any viable shard subset; architected as 5 independent microservices (adapter, shardmap, sharding, orchestrator, gateway) containerised with Docker.
- Implements both a split-microservice topology (with NGINX gateway) and a functionally equivalent standalone monolith behind the same frontend and API surface, enabling direct comparison of service-boundary decomposition versus deployment simplicity.

Popcurate, github.com/Vindyang/popcurate | Next.js 15, TypeScript, Supabase, Drizzle ORM, Tailwind CSS, TMDb API

- Movie discovery platform with a hybrid ALS + AI recommendation engine, genre browsing, personalized watchlists, trailer integration, and dark/light theme; live at popcurate.vercel.app.
- Trained a collaborative-filtering ALS model on TMDb ratings and enriched outputs with AI-generated explanations; user auth and watchlist persistence backed by Supabase PostgreSQL with a Python data-population pipeline.

Planr, github.com/Vindyang/planr | Next.js, TypeScript, Prisma, PostgreSQL

- AI-powered university course planning platform where students build validated semester roadmaps and track graduation progress, while admins manage departments and course catalogues via role-based access control; deployed at planr-puce.vercel.app.
- Validates semester plans against graduation requirements with prerequisite-chain checking and credit unit tracking; features a course and professor review system with dual-role access management.

Mono, github.com/Vindyang/mono | Next.js 16, TypeScript, Prisma, PostgreSQL, Recharts

- Project management and analytics dashboard with task completion stats and team productivity tracking using Recharts, translating operational data into actionable visualizations.
- Implemented role-based access control with various permission tiers, activity logging, RESTful API routes with Prisma ORM, and email-based team invitations.

Tariffic, github.com/ofwirawan/verbose-garbonzo-tariff | Spring Boot, Java, Tribuo, Recharts, Docker

Comprehensive trade analytics platform for importers and policy analysts

- Built data ingestion pipelines integrating 3 external APIs (World Bank WITS, Freightos, Google Gemini) for real-time tariff data, freight rates, and AI-generated trade summaries.
- Deployed on AWS with automated CI/CD via GitHub Actions, including security scanning (CodeQL, Trivy) and Docker containerization.

SKILLS & INTERESTS

Technical: JavaScript, TypeScript, Python, Go, C, Java, React, Next.js, FastAPI, Prisma ORM, PostgreSQL, Supabase, Drizzle ORM, Redis, Docker, AWS (EC2, ECS, S3, CloudFront), PyMuPDF, python-pptx, Microsoft Graph API, openpyxl, Recharts, Terraform, Checkov, OpenAI Agents SDK, Figma, GitHub, HTML, CSS

Language: Bahasa Indonesia (Native), English (IELTS: 7.5), Chinese (Basic)

Interest: Full-Stack Development, Cybersecurity & IT Governance, AI/ML, Financial Technology