

Justine Winata

Singapore | +65 9352 6719 | tintin6892@gmail.com
tintinwinata.com | linkedin.com/in/tintinwinata | github.com/tintinwinata

PROFESSIONAL EXPERIENCE

Software Engineer - AI Lab

March 2026 – Present

Cynapse - Series A AI Video Intelligence Company, 50+ organisations across Asia and the US

Singapore

- Promoted into the CEO-led AI Lab, selected to drive the company's Generative AI strategy.
- Deployed Prometheus, Loki and Grafana observability, then built a closed-loop on-call agent using MCP and custom Skills that diagnoses incidents from logs, files tickets, and drafts fixes through to pull request, cutting incident-to-fix time by 5x.
- Shipped Copilot, the first VMS in the industry with natural-language video search (e.g., "find a person wearing a red jacket yesterday"), using multimodal-embedding RAG over 75M detections; tuned MongoDB Vector Search with HNSW and quantization to hold p95 query latency under 10s.

Software Engineer - Deployment & Platform

March 2025 – March 2026

Cynapse

Singapore

- Built and scaled a distributed video analytics pipeline across 2,000 CCTV cameras sustaining 16,000 frames/sec on Kubernetes, using RabbitMQ queues with retry and backpressure handling for reliability under high concurrency, detecting 1M+ incidents in production.
- Cut container image build time 2x by restructuring Dockerfiles for layer caching and parallelizing backend and frontend builds within a single image pipeline.
- Served as interim team lead for 3 engineers following the lead's departure, maintaining momentum with no gap in delivery and shipping the project to the client on time.

Software Engineer

March 2024 – February 2025

The Software Practice - Singapore consultancy for Government, top banks and airports

Remote, Singapore

- Developed an administration portal for the Singapore Government on a CI/CD pipeline sustaining 2+ production deployments per day.
- Built unit and automated test suites reaching 85% code coverage (Moq, AAA pattern) and cutting manual QA time by 4x with Python Selenium.

Software Engineer (Part Time)

July 2023 – February 2025

The Questlabs ID & Freelance

Remote, Indonesia

- Delivered 5+ production web platforms for clients across Indonesia, Uzbekistan and India, including a POS system driving IDR 200M+ monthly gross sales and a production management platform handling 16,000+ records with 96% faster report generation.

EDUCATION

BINUS University (GPA 3.92)

West Jakarta, Jakarta

Bachelor of Computer Science

- Published paper "Analysis ChatGPT Potential: Transforming Software Development with AI Chat Bots".

PROFESSIONAL CERTIFICATION

Amazon Web Services (AWS): Associate Certified Developer

MongoDB: MongoDB Certified Associate Data Modeler

Alibaba: Alibaba Cloud Certified Associate (ACA), Alibaba Cloud Certified Professional(ACP)

NATIONAL ACHIEVEMENT

1st Red Asia x AWS AI Engineers Competition - AI agent for automated root-cause analysis December 2025

5th National Selection for ASEAN Skills Competition in Web Technology - Indonesia September 2022

TECHNICAL SKILLS

Languages: PHP, JavaScript, TypeScript, Kotlin, C, SQL, Java, C++, C#, Python, Go

Frameworks: ASP.NET, Svelte, Laravel, ExpressJS, ReactJS, GraphQL, Node.js, Flask, Remix

Infrastructure: Docker, Kubernetes, Helm, RabbitMQ, Redis, CI/CD, Prometheus, Loki, Grafana, Amazon Web Services (AWS), Azure

Technology: MySQL, PostgreSQL, NoSQL, MongoDB, Vector Search (HNSW), Firebase, RAG, Machine Learning, Deep Learning