

NICHOLAS CHANDRA

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EDUCATION

Bina Nusantara University

B.Sc. in Computer Science *GPA: 3.85*

Sep 2021 - Feb 2025

WORK EXPERIENCE

PT. Soluix Finteknologi

Software Engineer (AI Engineering -> Core Banking)

September 2025 - Present

- Built an AI platform using a multi-agent LangChain system (OpenAI GPT) that auto-generates technical specs from GitHub repos, backed by a hybrid RAG pipeline combining keyword and semantic search (Elasticsearch + ChromaDB) over indexed codebases, with Redis session persistence and a Next.js 15 / TypeScript frontend.
- Developed a new core Gold Financing product with a scalable Go-based microservice architecture integrated with Thought Machine, securing 15,000+ net-new active customers within 2 months of production launch.
- Maintained and optimized transactional workflows for conventional and Sharia banking products (Time Deposits, Qardh, Mabrur), ensuring strict ledger integrity for 500,000+ active funding accounts.
- Implemented health-check patterns and retry mechanisms for surrounding Go microservices to safely process 5,000+ daily transactions across Thought Machine integrations while maintaining a stable 99% uptime environment.
- Developed a high-performance passbook mutation engine in Go to aggregate and sequentially stream real-time transaction histories for 500,000+ migrated funding ledgers, currently serving 20,000+ production users across all branches.
- Refactored the end-to-end reporting service in Java/Spring Boot, integrating Apache Fineract and Neo4j to generate repayment, outstanding loan, and related financial reports from graph-connected entities.

Bina Nusantara University

Laboratory Assistant -> Subject Coordinator

September 2022 - September 2025

- Taught up to 7 practicum classes per semester and designed exam cases across CS fundamentals and applied computing courses.
- Built TPA projects spanning game development (Unity), desktop apps (Next.js, Electron, Firebase), web apps (React.js, Go, PostgreSQL), mobile apps (Kotlin), and network administration (Ubuntu, Proxmox, Kubernetes).
- Led curriculum management and academic integrity for Human-Computer Interaction and Computer Vision courses, supervising assistants and standardizing exam creation processes.

Freelancing

Full-stack Developer, DevOps Engineer

May 2024 - September 2025

- Delivered a customized Shopify storefront for Franke Singapore, modifying theme source code in Liquid and integrating Shopify GraphQL APIs.
- Developed and deployed a real-estate internal mobile app for Harmony Realty (React Native, Express.js, MySQL, Docker) with WhatsApp API integration for live chat.
- Built a backend system for an internal e-commerce platform with product and sales analytics using PHP.

SKILLS & PROFICIENCIES

Programming Languages:	Go, Python, Java, JavaScript, TypeScript, PHP
Frameworks:	Spring Boot, Next, React, Tailwind, Express, React Native, GraphQL, Prisma
Databases:	PostgreSQL, MySQL, SQL Server, Neo4j, Redis, Elasticsearch, Firebase
Tools:	VS Code, IntelliJ IDEA, Postman, Docker, GitHub, Thought Machine, Grafana
AI Tools / Frameworks:	LangChain, TensorFlow, Hugging Face, Flask, Scikit-learn, ChromaDB, OpenAI
Languages:	English (Fluent), Bahasa Indonesia (Native)

PROJECTS

Official Franke Store *Liquid, CSS, JavaScript, GraphQL* <https://frankehomesolutionssg.store/>
A kitchenware e-commerce website developed for Franke Singapore using Shopify by making a heavily customized Shopify theme which requires numerous modifications to the theme's source code.

Harmony Realty *React Native, Tailwind CSS, Express.js, Docker, WhatsApp API*
An internal mobile app for Harmony Realty's agents, supporting both Android and iOS, with a live chat feature integrated via WhatsApp API.

GitBee *Next.js, Tailwind CSS, Express.js, Prisma ORM, MySQL* <https://gitbee.apps.binus.ac.id/>
A thesis project, a live production platform used by BINUS University's School of Computer Science to showcase and manage student project portfolios across students, lecturers, and department heads.

Gama *React.js, Vite, Tailwind, Express.js, Flask, R3F, Leaflet.js* <https://github.com/ILAlAlex/Gama>
A cultural learning platform for Indonesian heritage, won 3rd place in the Connecting Cultures Track at GarudaHacks 6.0 (123 projects, 488 participants). Features AI-powered text-to-speech and translation services.

SignalScribe *React.js, Motoko, Tailwind, Python, Flask* <https://github.com/TheoJustin/sunshinev2>
Built the frontend and Flask backend for a DeFi token-swap platform on ICP, integrating a team-built Hybrid LSTM-GRU model and sentiment analysis engine that predicts cryptocurrency price movements from real-time news and technical indicators.

AWARDS & CERTIFICATIONS

3rd Place - Connecting Cultures Track GarudaHacks 6.0
3rd place out of 123 projects and 488 participants for Gama, a cultural learning platform with AI-powered translation and text-to-speech services. July 2025

AI-900: Microsoft Azure AI Fundamentals Microsoft
Microsoft certification validating foundational knowledge of ML and AI concepts on Azure. March 2025