Vincent Franstyo

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Experiences

PT Quantum Teknologi Nusantara **Jakarta**
Mid-Level Software Engineer November 2025 - Now
- Initiated GTM strategy for quantumbyte.ai along with PM and projected to gain first $1500 from paying international users in a month
- Initiated Posthog, Meta, and Google ads integration to track user behaviour and provide insights to attract 30 recurring customers.
- Designed an email sequence automation workflow tool for the marketing team to follow up on 1000 potential users reached via ads.
- Collaborated in a team of 6 developers to ensure pitching to over 8 international investors and venture capitals went well.
- Researched core system's alternatives for nexiusai.com and achieved 90% accuracy on 15 types of bank statements.
- Initiated the generation of a URL walker for developers to go through data that saved a month of manual work.

PT Fata Organa Solusi - CAC **Hybrid-Tangerang**
Full Stack Web Developer June 2024 - May 2025
- Utilized ASP.NET utilizing CQRS design pattern for building a scalable, well-performing, flexible backend service.
- Generated solutions in an 8-person cross-functional team, driving projects for on-time delivery in a fast-paced agile environment
- Engineered robust data pipelines by designing database schemas and writing T-SQL queries to manage and serve data efficiently.
- Assisted in the migration to Fuse React template to build enterprise-grade business applications

Projects

Personal AI Agent June 2026
- Architected a Telegram-based personal AI agent utilizing Hermes and 9Router to streamline and automate learning processes.
- Engineered LLM orchestration featuring persistent memory, custom skills, and plugins to ensure relevant, context-aware outputs.
- Designed multi-persona agent, enabling the system to be a customized financial advisor, second brain, and macro-economy tracker.

2ne4 - a 24 card game solver **June 2026**
- Gathered user needs and built 2ne4, a 24-game solver that finds valid formulas for any 4-card hand using recursive backtracking.
- Added a practice arena with real-time expression validation, hints, streaks, and local history to support repeated gameplay and learning.
- Refined UX with configurable rules, responsive design, and rapid interactions for a smoother solving experience based on feedbacks

Payment Receipt Processing System (Thesis Project)
Mobile Full Stack Developer and Machine Learning Engineer May 2025 - July 2025
- Engineered an innovative, OCR-free document intelligence system by leveraging a transformer-based architecture
- Fine-tuned the SOTA DONUT model, specializing it to parse a diverse range of complex Indonesian payment documents.
- Delivered a full-stack mobile app by integrating the ML backend, achieving a benchmark 81.50% F1-Score and 17.2% mCER
- Forged a complete end-to-end pipeline automating the entire workflow, from raw image input to structured JSON output.
- Built a backend service using FastAPI, featuring sophisticated dual-model architecture for high-throughput inference.

Bangkit Academy Cloud Computing Cohort in the First Batch of 2024
Backend Developer Feb 2024 - Sept 2024
- Architected and developed FoodWise App backend service with 3 core features and 29 RESTfulAPI using Express.js + TypeScript
- Deployed scalable services on Google Cloud Platform and integrated ML services with Supabase as Backend-as-a-Service
- Documented comprehensive API documentations using Postman for seamless team collaboration

Education

Bandung Institute of Technology (GPA: 3.59/4.00)
B. Sc. in Information System and Technology Graduate at Bandung Institute of Technology
Programming Laboratory Assistant in STEI ITB
Second Runner Up in Data Analytic Dash COMPFEST 16 by University of Indonesia
Bangkit Academy Cloud Computing Cohort in the First Batch of 2024

Leadership & Activities

Sistem Asesmen Terpadu Organisasi (ASTRO-ITB) **Hybrid-Bandung**
Full Stack Developer Oct 2024 - Nov 2024
- Single-handedly built and launched ASTRO, a web application designed to analyze business process maturity level
- Engineered an adaptive assessment in Python (Django) that dynamically tailored content based on real-time input and profile
- Championed the product to enterprise users (MSMEs), securing a 90% adoption and recommendation rate

Skills & Interests

Languages: English: Professional proficiency | Mandarin: Conversational Proficiency | Indonesia: Native proficiency
Programming Languages: Python, Typescript, HTML, CSS, SQL (PostgreSQL, MySQL, MariaDB), C#, C, C++, Java, PHP
Full Stack Frameworks: ReactJS, TailwindCSS, Bootstrap, shadcnUI, NodeJS, ExpressJS, Laravel, NextJS, FastAPI, PostgreSQL, MySQL, ASP.NET, React Native
General Tools: Git, Github, Gitlab, MongoDB, Supabase, Prisma, SSMS, Firebase, Google Workspace, Figma, Gradle, Vercel, Swagger, Microsoft Graph, SSMS, Postman, Microsoft Azure, GCP, Expo, Posthog, Meta, Google Ads
AI/ML & Data Tools: PyTorch, Transformers (HuggingFace), Scikit-Learn, Tableau, Spreadsheets, Claude, Codex, 9Router, Hermes, Antigravity, Openrouter