

Vincent Tanjaya

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SUMMARY

AI Engineer and scientist with experience of supporting end-to-end machine learning solutions, demonstrating expertise in ETL processes, data analytics, and model tuning. Delve through various AI topics, and collaborated with cross-functional teams to create solutions-based architecture and implementation. I am excited to expanding the boundaries of AI while contributing to meaningful projects.

EDUCATION

BINUS University, Bachelor of Computer Science [3.93 GPA] 2022 — Present

- Intelligent Systems (Artificial Intelligence) Streaming
- Web Programming Elective Course

PROFESSIONAL EXPERIENCE

PT Virtue Digital Indonesia, Full Time Feb 2025 — Present

AI Engineer:

- Delivered production-grade systems (OCR, NLP, and chatbots) for multiple-client applications, supporting conversational workflows, and real-world document processing handling 80+ documents per day.
- Analyzed client business problems and translated them into scalable AI architectures, from model selection to deployment
- Designed and implemented agentic AI systems using MCP-based orchestration
- Evaluated and benchmarked multiple AI services, proposing state-of-the-art architectures optimized for accuracy, latency, and cost in production environments

Fullstack Engineer:

- Resolved 500+ production bug tickets, achieving a zero-backlog state for 3+ critical applications
- Optimized legacy frontend / backend systems through 15+ live applications
- Contributed on frontend development on rebuilding 2 full web applications, by employing micro-frontend architectures with consistent package release and versioning

The Questlabs ID, Part Time Feb 2025 — Present

Frontend Engineer:

- Building production-ready application through clean, scalable, and maintainable code practices
- Collaborating and actively participating on requirement and adjustment needed to enhance user experience

BINUS University, Full Time Feb 2023 — Feb 2025

Subject Coordinator:

- Coordinated and led assistant teaching across at least 100+ class spanning 8 academic subjects, including Big Data Processing, Database Systems, Computer Graphics, Database Systems, and Object Oriented Programming
- Supervised 100+ quiz and examination development and score grading for 20+ classes
- Achieved 2% improvement in student academic performance across supervised subjects

Junior Laboratory Assistant:

- Instructed 6 - 8 classes each semester, providing hands-on learning experiences for 10+ subjects, including Big Data Processing, Computer Vision, Database Systems, and many more.
- Self-Development projects (Test Progressive Assistant) covering 5 range of topics
- Marked 200+ student grades across 4 classes
- Created student exam cases and visual based learning videos for various subject, including Deep Learning, Object Oriented Analysis and Design, and Mobile Community Solution.

TECHNICAL SKILLS

- **Languages** : Python, Java, Javascript, Typescript, GO, Kotlin, C, C#, Rust, Motoko, PHP
- **AI related tools**: Langgraph, Langflow, N8N, MageAI, Tensorflow, Keras, HuggingFace for traditional models and Deep Learning Models
- **Frameworks** : Django, Svelte, GraphQL, Laravel, Flask, Next, React, React Native
- **Frontend Libraries / Tools** : TailwindCSS, Material UI, Context API, Vite, Storybook, Axios / Fetch
- **Big Data** : Apache Spark (PySpark), Hadoop, Hive, Impala, Pig
- **Networking** : Docker, Ubuntu Server, Github Actions, Cisco Packet Tracer
- **Soft Skills** : Teamwork, Leadership, Communication, Critical Thinking, Time Management

HONORS AND AWARDS

Best Performing Assistant Even Semester 2022/2023	BINUS University, 2023
Best TPA Performing Assistant	BINUS University, 2024
Test Progressive Assistant Completion	BINUS University, 2024

Successfully completed 5 advaced technical projects with perfect on-time delivery, including:

- Game Development (Unity)
- Desktop Application Development (ReactJS, Firebase, and Electron)
- Web Development (ReactJS, Go, PostgreSQL, GraphQL, and Redis)
- Mobile Development (Kotlin and Android Studio)
- Networking (CI/CD, Docker, and Cisco Packet Tracer)

Diploma of Best Assistant Odd Semester 2023/2024	BINUS University, 2024
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ACHIEVEMENTS

Top 30 — GammaFest Data Science Competition	April 2024
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IPB University

- Created a model that can extract percentage of votes from a ballot paper image using custom DCNN model, aided with OpenCV Image Processing.
- Achieved 98% accuracy on the test dataset

1st Place — Codefest Blockchain Hackathon 2.0	March 2024
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Codefest, Dfinity Foundation

- Innovated a decentralized hiring platform built on the Internet Computer using Motoko Programming Language.

Finalist — CompFest AI Innovation Challenge	September 2023
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Universitas Indonesia

- Created a web application that can diagnose various diseases, such as skin cancer (based on a user's skin image fed into a DCNN model), Parkinson's disease (based on a user's voice using SVM), and common conditions like diabetes, mental health disorders, and cardiovascular diseases.

PROJECTS

SLCatering	May 2024 — September 2024
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- Web application developed to streamline catering services for the internal operations with 50+ active users and 200+ sucess transactions.
- Featured real-time order tracking via WebSockets, user authentication, and seamless payment integration. Deployed on a VPS using CI/CD pipelines on Github Action.

SignoAI	November 2023
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- Computer Vision model built to recognize and classify sign language hand gestures from images or video in real time.
- Leverages MediaPipe for hand landmark detection and a fully connected neural network for gesture classification.