

Taufik Pragusga

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EDUCATION

University of Indonesia

Bachelor's Degree in Computer Science

Coursework: Data Structures & Algorithms, Software Engineering, Databases, Operating Systems

Jakarta, Indonesia

Aug. 2020 – Aug. 2024

EXPERIENCE

Software Engineer

Videfly

Sep. 2024 – Dec. 2024

Indonesia (Remote)

- Reduced video rendering time by 70% through developing memory-efficient batch processing system and optimizing canvas rendering configurations.
- Reached a 99.99% success rate in video creation (from 30%) by implementing controlled generation, enabling generative AI to produce outputs that matched the required data structure.
- Improved video quality by designing and deploying 60+ dynamic video templates and integrating a text-to-speech API for professional-grade voiceovers, enhancing user engagement and video marketing effectiveness.

Cloud Platform Engineer Intern

Telkomsel

Feb. 2024 – June 2024

Jakarta, Indonesia

- Elevated data processing efficiency by automating data extraction from Datadog, saving 70% in manual processing time and enabling data-driven insights through AI-based analysis.
- Decreased infrastructure setup time by 50% by developing a reusable AWS EC2 module with Terraform, enabling consistent environment provisioning across multiple project environments.
- Enhanced security compliance by implementing a centralized AWS permissions platform, cutting security incidents by 30% and achieving 100% adherence to security protocols.

Software Engineer Intern

Tokopedia

Sep. 2023 – Dec. 2023

Indonesia (On-site)

- Boosted AI chatbot effectiveness by refining prompt engineering with the HYDE method, improving response relevance by 25% and raising user satisfaction scores by 15%.
- Strengthened codebase maintainability by refactoring 20+ core components, reducing debugging time by 40%, which allowed faster issue resolution and onboarding for new developers.
- Achieved 95% test coverage with a comprehensive unit testing suite, decreasing production bugs by 30% and significantly enhancing overall code stability.

PROJECTS

Earthquake Early Warning System | *Python, Golang, Kafka, MongoDB, Redis*

Aug. 2023 – Dec. 2023

- Engineered a robust microservices system with 5 dedicated services, leveraging Kafka as a message broker to process real-time data from over 3,000 sources.
- Optimized latency to under 1 second through precise Kafka configuration, achieving high throughput without compromising memory or CPU efficiency.
- Maintained stable performance under heavy data load, ensuring rapid response and reliability for critical early warnings.

Fraud Busters | *Typescript, Python, Express.js, React.js, TailwindCSS, GCP*

May 2023 – July 2023

- Crafted a high-performance fraud detection web app that analyzes and predicts fraud in up to 10,000 transaction records in under 1 second.
- Implemented frontend, backend, and deployment processes independently, collaborating with three machine learning engineers, resulting in an 80% reduction in fraud detection time compared to manual review.

TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, Golang, Java

Frameworks: React, Next.js, Node.js, Fastify, Express.js, Nest.js, Flask, FastAPI, Django, Spring Boot

Databases: PostgreSQL, MySQL, SQLite, MongoDB, Redis, DynamoDB

Developer Tools: Git, Docker, AWS, GCP, Azure, Apache Kafka, RabbitMQ, SonarQube, Prometheus, VS Code