

Software Engineer with 3+ years of experience crafting scalable fintech, SaaS, and AI platforms. Focusing on building microservices, API integrations, and system optimization. Experienced in cross-functional collaboration, providing technical guidance, and developing solutions that support business objectives.

WORK EXPERIENCE

Software Engineer at PT SMBC Indonesia Tbk (Jenius)

(June 2024 - Now)

The largest digital banking company in Indonesia

- Developed microservices with **Express.js** and **Spring Boot**, integrating 5+ insurance partners and automating policy workflows, reducing manual processes by 90%.
- Boosted 30% system performance by implementing **Kafka** and **Redis** in existing services.
- Built a custom **MFT SFTP** service with 99.9% uptime, saving \$50K annual license.
- Achieved 100% **unit test coverage** on new and existing services, reducing production issues by 30%.
- Created **React.js** components for the user priority and insurance activation dashboard, automating manual tasks.

Full Stack Developer at PT Informasi Teknologi Indonesia

(Mar 2023 - June 2024)

Provider of messaging and AI-driven solutions in Indonesia, trusted by 500+ top corporations

- Develop a multi-tenant SaaS platform such as legal, assets, and task management system that has been used by 500+ users using **Laravel** and **MySQL**.
- Led design and architecture strategy for the Asset Management project, delivering **PRDs**, **TRDs**, and **ERDs** for flawless execution by the developer team.
- Developed a new dashboard for users by creating **Golang** APIs integrated with **Next.js** and **TailwindCSS**, boosting user automation efficiency by 30%.
- Reduced technical debt by 60% using **SonarQube**, enhancing code quality and stability.

Backend Engineer at PT MNC Asia Holding Tbk

(Feb 2022 - Feb 2023)

Indonesia's Leading Investment group, sector across Media, Finance, and Hospitality

- Engineered real-time requests with **AWS WebSocket** and **Redis**, cutting service latency by 15% and improving the platform's responsiveness.
- Refactored the payment gateway using **GraphQL** and **AWS Lambda**, reducing transaction processing time by 30% and increasing system scalability.
- Optimized **MySQL** database performance with **Gin** and **Laravel**, boosting query execution speed by 20% and reducing system errors by 40%.
- Migrated to **GraphQL** data structures, enhancing homepage load speed by 25% and improving user experience.

PROJECT EXPERIENCE

Backend Engineer Freelance at Jublia Pte Ltd. - Singapore

(Sep 2023 - Dec 2023)

Empowering Events with Smart Business Matching & Data-Driven Networking Solutions.

- Boosted search relevance by 40% using **Elasticsearch** and **Collaborative Filtering**
- Reduced server response time by 25% through **PostgreSQL** optimization, improving platform responsiveness.
- Built an AI-powered sentiment analysis service utilizing **OpenAI** and **Langchain**, achieving 96% sentiment classification accuracy and providing insights on NPS, CSAT, and onsite event satisfaction
- Automated daily sentiment reports using **RabbitMQ**, increasing attendee feedback analysis speed by 50%.
- Decommissioned several unused **Flask** features, resulting in a 20% reduction in system overhead, and streamlined our CI/CD processes

Backend Engineer Freelance at Shumi

(Sep 2019 - Dec 2022)

One of the biggest action figures in e-commerce in Indonesia

- Developed and optimized RESTful APIs utilizing **Laravel** for the Shumi e-commerce and admin dashboard platform, catering to over 2,000 daily users and facilitating 100+ monthly transactions, generating approximately \$10,000+.
- Integrated **Ipaymu** for secure payment processing and **RajaOngkir** for streamlined logistics management, resulting in a 30% reduction in manual processing times.
- Deployed APIs on **Digital Ocean**, implementing **Sentry** monitoring to ensure continuous system reliability.

Backend Engineer Freelance at BSSN

(May 2023 - July 2023)

Indonesia National Cyber and Crypto Agency

- Developed and integrated the EHA (Electronic Hacking Automation) tool to streamline vulnerability scanning and asset management, enhancing server security.
- Built and maintained an API backend with **Node.js**, **Express.js**, **Sequelize**, and **MySQL**, handling 100+ daily user requests with efficient data management—Integrated **Nessus scanner API** and automated vulnerability server scans.
- Deployed on **AWS EC2** and implemented a job scheduler for automated security checks, enabling 24/7 monitoring and improving security coverage by 20%.

EDUCATION

- Sepuluh Nopember Institute Of Technology** - Master Management, Current GPA: 3.60 / 4.00 (2024 - Now)  
**Thesis: Application Quality Improvement Recommendation System For Jenius Using RAG-LLM And ISO/IEC 25010:2011 Software Quality Model Framework**  
Developed a RAG-LLM-based recommendation system using **Python, LangChain, and Llama 3.2** to enhance the Jenius app quality based on the **ISO/IEC 25010:2011** software quality model framework. Analyzed user reviews from Google Play Store and App Store, storing structured data in **PostgreSQL** and vector embeddings in **ChromaDB** for efficient retrieval. Classified feedback into eight key quality dimensions (usability, security, performance efficiency, etc.) and generated data-driven recommendations to support strategic decision-making in digital banking application development.
- Telkom University** - Bachelor Computer Science, GPA: 3.88 / 4.00 (2019 - 2023)  
**Thesis: Sentiboard Application (University Sentiment Dashboard Application Using IndoBERT Model)**  
Developed a sentiment analysis dashboard for university service evaluation using **Python, Django, and IndoBERT transformers**. Designed an automated system to analyze student feedback from social media using **Twitter API**. Implemented an **iterative incremental** methodology for optimized development. The system provides universities with data-driven insights to improve academic services.

SKILLS

- Programming Language:** Golang, Java, Python, Javascript, Typescript, PHP
- Backend Stack:** SpringBoot, ExpressJS, Laravel, Flask, FastAPI, Django, Gin, Echo
- Frontend Stack:** React, Vue, NextJS, Tailwind, Streamlit
- Tools:** Docker, Git (Github, Gitlab, Bitbucket), Postgres, MySQL, MongoDB, Jenkins, S3, AWS, Sentry, Redis
- Others:** Tensorflow, Huggingface, Plotly, Langchain

CERTIFICATION

- TOEFL ITP - 547 (2024)
- IBM Machine Learning Certification (2021)
- Digitalent Scrum Master Certification (2022)
- Microcredential Certification For Associate Data Scientist (2021)

ORGANISATION EXPERIENCE

- Proclub Telkom University - VP Internal & Software Engineer Lead** (Jan 2020 – Dec 2021)
  - Led and mentored a team of 200+ software engineering students, designing industry-relevant curriculums for the Software Engineer, Business Analyst, and Product Designer divisions
  - Organized and facilitated 10+ workshops, competitions, and recruitment events, enhancing skill development and team engagement.
- Motion Laboratory Telkom University - Hackathon Judges & Technical Staff** (Jan - Feb 2022)
  - Evaluating 21 teams on innovation, technical execution, and problem-solving skills.
  - Provided technical mentorship and support, ensuring smooth event execution and fostering a competitive yet collaborative environment.