

DONI PUTRA PURBAWA

Senior Backend Engineer | Fintech, Cloud & AI

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SUMMARY

Senior Backend Engineer with 6+ years of experience building scalable backend systems using Java, Node.js, Golang, and AWS. Experienced in microservices architecture, fintech and payment gateway integrations (Stripe, PayPal, GMO, Square), and AI-powered applications including LLM integrations and chatbot systems. Previously developed and deployed a deep learning model for anomaly detection. Proven leadership experience while remaining hands-on in backend development, focusing on building reliable and production-ready systems. Currently based in Indonesia and open to relocation to Japan.

EXPERIENCE

Backend Engineering Manager (Hands-on)

Gloding, Inc. — Japan, January 2020 – Present

- Designed and developed scalable backend systems using microservices architecture with Docker and gRPC, deployed on AWS EC2 with Auto Scaling and ALB.
- Integrated payment gateways including Stripe, PayPal, GMO, and Square, implementing payment processing, subscription billing, and webhook handling.
- Developed AI-powered backend services using LLM APIs (OpenAI, Gemini) for chatbot and recommendation systems.
- Architected and operated AWS cloud infrastructure, including EC2, RDS (MySQL/PostgreSQL), S3, Lambda, and CloudWatch.
- Implemented caching and asynchronous processing using Redis to improve performance and scalability.
- Led backend development while remaining hands-on in system design, implementation, and production operations.

Cloud Solution Architect (Hands-on)

Gloding, Inc. — Japan, January 2018 – January 2020

- Designed and built AWS cloud infrastructure from scratch, including EC2, RDS, S3, IAM, and networking for production systems.
- Implemented CI/CD pipelines using GitHub Actions, enabling automated build and deployment after code review and approval.
- Managed and operated production and development environments, supporting both monolithic and microservices architectures.
- Deployed backend services using Golang binaries, systemd, and PM2, ensuring reliable and maintainable production operations.
- Designed scalable infrastructure using Auto Scaling and Application Load Balancer (ALB) to support traffic growth.
- Monitored and maintained system reliability using CloudWatch and operational best practices.

Backend Developer

Gloding, Inc. — Japan, October 2017 – January 2018

- Developed RESTful APIs using Java and Python, supporting web and internal systems.
- Worked with MySQL and Linux servers, deploying and maintaining backend services.

Machine Learning Engineer (Contract)

PT. Hikari Solusindo Sukses — Indonesia, August 2021 – December 2021

- Developed deep learning classification models for COVID-19 detection in the i-Nose C-19 medical device using electronic nose sensor data, validated with PCR and antigen test results.
- Implemented anomaly detection and outlier removal algorithms based on master's thesis research, improving dataset quality and model reliability.
- Deployed trained models to Raspberry Pi, enabling real-time inference in the i-Nose C-19 edge-based screening system.
- Performed data preprocessing and analysis on daily COVID-19 datasets, supporting continuous model training and validation.

EDUCATION

Master of Informatics Engineering

Institut Teknologi Sepuluh Nopember (ITS), Surabaya, 2020 – 2022, GPA 4.00/4.00

- Published research on deep learning-based anomaly detection for electronic nose data in Elsevier Q1 journal.
- Developed COVID-19 prediction models for i-Nose C-19 medical device using machine learning and deep learning.
- Co-authored the book "Machine Learning & Deep Learning using Python".

Bachelor of Informatics Engineering

Brawijaya University, Malang, 2014 – 2019, GPA 3.79/4.00

- Recipient of the Djarum Foundation Scholarship | 2017
- Student Exchange Program — Saga University, Japan | 2018
 - Studied Japanese language and culture
 - Conducted satellite image processing research using Python under Prof. Hiroshi Okumura
 - Awarded Saga University Exchange Scholarship

CERTIFICATION

Japan Language Proficiency Test (JLPT) N4

Japan Foundation | Score: 106 / 180 | 2025-07

AWS Certified Cloud Practitioner

Amazon Web Services | 2026

Test of English for International Communication (TOEIC)

International Test Center | Score: 765 | 2019-09

TECHNICAL SKILLS

- Languages: Golang, JavaScript (Node.js), Python, Java
- Cloud & Infrastructure: AWS (EC2, RDS, S3, Lambda, IAM, CloudWatch), Linux, Docker
- Backend & Architecture: REST API, Microservices, gRPC, System Design
- Payment Integration: Stripe, PayPal, GMO, Square
- Databases: MySQL, PostgreSQL, Redis, Qdrant (Vector DB)
- Tools: Git, GitHub Actions, Jira, Bash
- AI & Machine Learning: LLM Integration (OpenAI, Gemini), TensorFlow