



# Jerome de Dios

Generative AI Software Engineer

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## Summary

Generative AI Software Engineer with 15+ years of experience designing, building, and operating high-traffic, production-grade platforms. Proficient in Python, Java, and AWS, with a proven record of automating deployments, reducing incident recovery time, and maintaining 99.95% SLA uptime. Experienced in building scalable, resilient backend systems and deploying robust cloud infrastructure, now expanding expertise in cloud-native architectures and Generative AI solutions. Proactive in root-cause analysis, continuous delivery pipelines, and collaborative Agile environments, with a strong drive to develop AI-powered, production-ready systems.

## Education

<b>Masterschool, Berlin Germany</b>	<b>Sep 2024 - Nov 2025</b>
Software Engineering: Generative AI Training / Cloud Engineering	Diploma

### Cloud Engineering & Generative AI Engineering

- Cloud Engineering** (Jun 2025 – Nov 2025): Training in cloud computing: AWS, Infrastructure as Code (IaC), cloud storage & services, cloud architecture and deployment.
- Generative AI / AI Engineering** (Sep 2024 – Jun 2025): Intensive online training in software & AI engineering. Gained hands-on experience with Python, APIs, JavaScript, web backend frameworks (e.g. Flask), SQL; worked with LLMs / generative-AI tools, prompt-engineering, and AI model integration.

<b>University of the Philippines Open University</b>	<b>Sept 2012 - Dec 2012</b>
(Incomplete) Master of Science	Information Systems

<b>Asian Development Foundation College, Philippines</b>	<b>Sep 2000 – Jun 2004</b>
Bachelor of Science	Computer Science

## Experience

<b>webeet.io</b>	<b>September 2025 - November 2025</b>
Software and Cloud Engineer (Internship)	Remote - Amsterdam
<a href="https://www.webeet.io/">https://www.webeet.io/</a>	

DevSecOps Team Lead – responsible for leading a team in developing AWS infrastructure for observability and provisioning services and servers.

Software Engineer – developed an AI-driven web application for analytics and automation.

**For additional experience and details on projects and technical contributions**  
<https://www.jeromededios.de/>

- Please refer to my portfolio at <https://www.jeromededios.de/>

## Profiles

[jerome.de.dios](https://www.linkedin.com/in/jerome.de.dios)  
LinkedIn

[jdedios-de](https://github.com/jdedios-de)  
GitHub

## Technical Skills

### Languages & Data

Python, SQL (PostgreSQL, MySQL, Oracle, DB2, SQLite), plus background in Java/Java-EE/servlet-based stacks

### Generative AI & Modern AI Tooling:

Experience and familiarity with Generative-AI frameworks / libraries (e.g. LangChain, Pydantic), vector-store / retrieval-augmented generation setups, building / fine-tuning / integrating LLM- or AI-based components

### Backend / Web & Software Engineering:

API and service development (e.g. via FastAPI), web stacks, system design and scalability, integration of ML components into production-ready applications

### DevOps / MLOps / Deployment:

Containerization (Docker), awareness with orchestration (Kubernetes), cloud/deployment pipelines, CI/CD for ML/AI deployments

## Soft Skills

### Soft / Language / Cross-functional:

Fluent in English, strong communication skills, ability to translate business requirements into technical AI/ML solutions

### Attention to Operational Excellence

### Analytical Problem-Solving

### Adaptable Collaboration

## Projects

### AgentOps-compliant AI Application

2025 – present

[GitHub Repository](#)

AI AgentOps Project (in development)

- Designed and developed an AI-driven application under AgentOps compliance with agent-based architecture and production-grade workflows.
- Implemented configuration-as-code for prompts, tools and workflows to ensure version control, reproducibility and governance.
- Built observability infrastructure (LLM/tool calls, I/O tracing, resource & cost monitoring, error tracking) for transparent and auditable agent behavior.
- Established full agent lifecycle: development → testing → deployment → monitoring → maintenance.
- Defined integration plan with external APIs/databases; specified clean interfaces and access control for production-ready deployment.

**Tech & Concepts:** Spring Boot · Agent Development Kit (ADK) · agent-based software design · config-as-code · observability & monitoring · API integration · AI/LLM orchestration

### Nursing Assistant Application

[GitHub Repository](#)

**Tech Stack:** FastAPI, PostgreSQL, Pinecone, GPT-4o, Gemini, LLaMA 3, Grok, OAuth2, LangSmith, Logfire, Loguru

- Built an AI-powered backend to automate patient handoff and clinical Q&A, reducing manual documentation time by an industry average of 2x.
- Delivered a modular, production-ready system, achieving 100% Retrieval-Augmented Generation accuracy on WHO-sourced medical queries with multi-model support and observability.

### Grocery Web Application – Cloud-Native Deployment June 2025 - Jul 2025 with AWS & Terraform

[https://github.com/jdedios-de/AWS\\_grocery](https://github.com/jdedios-de/AWS_grocery)

This project demonstrates my ability to architect, containerize, and deploy a full-stack solution in the AWS ecosystem—showcasing strong proficiency in DevOps, IaC, and cloud-native application development.

## Languages

English

Native

Filipino

Native

German

A1