

RIO GESULGON

Senior Fullstack Engineer / Machine Learning / Agentic Systems

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SUMMARY

Senior Software Engineer with 19+ years of experience building backend and full-stack systems across banking, enterprise software, and AI-driven products. Combines deep Java and Spring Boot expertise with modern web development and machine learning integration to deliver scalable, reliable solutions. Led and contributed to products from architecture through production, including a patented counterfeit detection solution and high-impact platforms used in live environments.

SKILLS

Languages: Java, Python, TypeScript, JavaScript, Kotlin, Elixir, Rust, Go, PHP

Frameworks: Spring Boot, Spring Security, Angular, J2EE, SolidJS, JavaFX

APIs: REST APIs, GraphQL, gRPC, Kafka, OAuth, Keycloak

Data: PostgreSQL, Oracle, MongoDB, Cassandra, JPA

ML & AI: Machine Learning, LLMs, RAG Pipelines, Function Calling, Multi-Agent Systems, MCP, MLOps, Computer Vision, NLP, GitHub Copilot, Prompt Engineering

Infra: Docker, Ansible, Linux, Git, Maven, Gradle

Quality: JUnit, Cucumber, SonarQube

Web: HTML, CSS

EDUCATION

Central Philippine University

Bachelor of Science, Software Engineering — 2000–2005

CERTIFICATIONS

- Device-based Models with TensorFlow Lite — DeepLearning.AI
- Convolutional Neural Networks in TensorFlow — DeepLearning.AI
- Introduction to TensorFlow for AI, ML, and Deep Learning — DeepLearning.AI
- Sun Java 5 Certified Programmer — Sun Microsystems
- Certified Scrum Developer (CSD) — Scrum.org

KEY ACHIEVEMENTS

Machine Learning Patent: Authored a patented ML solution detecting counterfeit products, filed with the European Patent Office.

Hackathon 1st Place: Won 1st place in a company-wide hackathon, showcasing mastery of machine learning for object detection and mobile deployment.

EXPERIENCE

SICPA — Senior Fullstack Engineer

Apr 2023 – Present

Malaysia

- Build and maintain backend, web, and desktop solutions supporting AI- and search-driven product experiences using Java, Spring Boot, Angular, JavaFX, Kafka, PostgreSQL, Keycloak, Docker, and Linux.
- Design and implement agentic AI systems — autonomous workflows using LLMs with tool use, multi-step reasoning, RAG pipelines, and human-in-the-loop guardrails for production deployment.
- Deliver production services that power AI and search experiences across products, with a focus on quality, scalability, security, and long-term maintainability.
- Contribute to system design and code reviews, helping maintain a clean, well-documented codebase and stronger engineering standards.
- Coordinate technical delivery with internal and external partners.

SICPA — Mobile Backend Developer

Jun 2019 – Apr 2023

Malaysia

- Delivered backend services, web applications, and computer vision solutions for mobile and enterprise products using Java, J2EE, Spring Boot, Angular, and Python.
- Built and maintained Java Spring Boot API services for core mobile application functionality with emphasis on reliability, security, and scalability.

- Developed and supported Angular web applications for end-to-end delivery.
- Developed computer vision models and internal tools using Python.

Standard Chartered Bank — Development Lead

Jan 2017 – Jun 2019

Malaysia

- Led development, delivery, and maintenance of multiple projects using Java, J2EE, Spring Boot, Oracle, MQ, and Docker.

HSBC Software Development Malaysia — Senior Software Engineer

Aug 2012 – Dec 2016

Malaysia

- Developed banking solutions using Java, J2EE, Spring, Adobe Flex, Struts, and Maven for the Global Business Funds department.

DHL IT Services — Integration Analyst

Aug 2011 – Jul 2012

Malaysia

- Developed Electronic Proof of Delivery modules using Java, Spring, Apache Struts, Maven, and Git.

Sabre Airline Solutions — Senior Developer

Jun 2011 – Aug 2011

Philippines

- Guided junior developers; introduced software testing using Java, JUnit, and Sonar.

Lawson Software (now Infor) — Senior Developer

Apr 2007 – Apr 2011

Philippines

- Developed frontend components for the company product used by multiple medium-scale retail companies globally using Java.
- Developed a web platform from the ground up using Java servlet technology.

5DB Consulting — Java Developer

Jan 2006 – Apr 2007

Philippines

- Developed internal sales opportunity management system for Fujitsu Philippines using C#, .NET, and Java backend components.

Fluor Daniel Inc. — Project Automation Intern

Jun 2005 – Dec 2005

Philippines

- Developed project automation and inventory management utilities using PHP.

LANGUAGES

English — Proficient