

## MAURICIO GOMEZ

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| [LinkedIn Profile](#)

**Highly accomplished and results-driven Senior Software Engineer with 20+ years of experience** specializing in the design, development, and deployment of large-scale, high-performance distributed systems, with a recent deep focus on **Machine Learning and AI Engineering**.

Proven leader in the full software development lifecycle (SDLC), Object-Oriented Design (OOD/A), and architecting cloud-native solutions on AWS.

Expert in leveraging data-centric tools and methodologies, including agentic workflows, LangChain, and advanced data processing, to solve complex business problems, drive significant revenue growth, and drastically improve operational efficiency.

### CORE COMPETENCIES

AI/ML & Data	Cloud & DevOps	Backend & Architecture	Languages & Frameworks
Machine Learning (ML)	AWS (Redshift, Redis, SQS)	Microservices	Java (8-11), Spring (MVC, Boot)
Agentic Workflows	Kubernetes, Docker	Distributed Systems	Scala (Akka, Play), Python (3.x)
LangChain, OpenAI	CI/CD (Jenkins, Git Enterprise)	RESTful APIs	PySpark, SQL/NoSQL (MySQL, Cassandra, HBase)
Anomaly Detection	Confluence, Jira	Message Brokers (Kafka, RabbitMQ)	Agile/Scrum, OOD/A

### PROFESSIONAL EXPERIENCE

#### INTUIT - Experimentation Platform

Senior Software Engineer | Nov 2025 – Present

- **Engineered an MXP Agent** utilizing an **agentic workflow** to aggregate, process, and deliver customized metrics and reports for managers, establishing a self-service analytics tool for internal use.
- **Initiated and built a new data ingestion pipeline** to support a **Machine Learning model** for enhanced **anomaly detection**, successfully onboarding new high-value commerce applications.
- **Developed a real-time segmentation analysis capability** by optimizing data export via **ETL Crawlers** to **Redshift** and implementing an asynchronous query mechanism to store low-latency results in **Redis**.
- *Technologies: Redshift, AWS, Python, Java, Spring Boot, Kubernetes, Kafka.*

## INTUIT - QuickBooks Lending

### Senior Software Engineer | Aug 2022 – Oct 2024

- **Pioneered an AI initiative by developing a Proof of Concept (PoC) using LangChain** and its Java equivalent to create a triage agent for the customer support center, centralizing knowledge and reducing engineer on-call overhead.
- **Contributed to a 400% revenue increase** (from \$1B to \$5B) by adding core business functionalities to the Line of Credit and Term Loan products.
- **Automated credit decision-making** for the "Get Paid Upfront" product by integrating and leveraging diverse financial and **Experian data points** to automatically adjust customer credit lines and mitigate portfolio risk.
- **Reduced underwriter overhead by ~30%** by implementing an automated notification system that prompted customers with frozen Experian reports to unblock them before applying for a loan.
- Wrote high-quality, efficient **Java microservices** and developed **Python data pipelines** using **PySpark** for daily ETL transaction jobs to partner systems (Web Bank).
- *Technologies: GenStudio, OpenAI, LangChain, DataBricks, PySpark, Redis, AWS, Kafka, Microservices.*

## BROADCOM

### Senior Backend Developer | Nov 2021 – Aug 2022

- **Enhanced security and compliance** for the identity microservice by implementing a new JWT format for permissions over 4096 bytes and integrating new cryptographic algorithms to meet audit requirements.
- **Drove a significant code quality increase** by integrating Black Duck, Sonar, and Coverity, raising overall code coverage from 0% to 50% and new code coverage to 80% across 10+ platform microservices.
- **Decreased API latency** for the central identity service by leveraging **Redis** as a caching layer, improving performance for multiple organizational products.

## RED OAK TECHNOLOGIES / APPLE

## **Senior Backend Developer | Jan 2018 – Nov 2021**

- **Architected and implemented a dynamic permissions and features rules engine** using **Scala** and **Cassandra** to govern user access to content management tools (Nemo and Sheriff) based on Apple directory group membership.
- **Led the complete migration** of all Nemo PRS/Sheriff tools and services from the internal datacenter to **AWS**, re-writing and deploying the entire infrastructure in Scala across all environments (DEV, QA, UAT, STAGE).
- **Improved platform flexibility** by developing multi-tenant support for Nemo and Sheriff applications, enabling a single binary set for both AOS and PRS environments.

## **ROCKET LAWYER, US**

### **Lead / Backend Senior Developer | June 2015 – Dec 2018**

- **Developed the core document generation platform from scratch** using **Scala, Akka, and Play** under the **AWS Cloud** using **Kubernetes**. This platform became a core business driver, enabling users to customize legal documents with state-specific rules and was successfully launched in France, Spain, Netherlands, and Germany.
- **Managed a critical infrastructure migration** from an old HBase 1.x cluster to a newer, more maintainable version, ensuring seamless data transfer and zero downtime for all user profile data.

## **EDUCATION & CERTIFICATIONS**

### **Professional Certificate in Machine Learning and Artificial Intelligence**

*Berkeley School of Engineering*

### **Apache Cassandra Developer & Administrator Certifications**

### **MBA with Finance**

*ITESM Santa Fe, Mexico. Sept 2009 – Dec 2011*

### **Bachelor's in Computer Software Engineering**

*ITESM Toluca, Mexico. Aug 2001 - Dec 2005*

**Natural Languages:** Spanish, English