

MAURICIO GOMEZ

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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 Integration**.

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.

- **AI/ML & Data:** Machine Learning (ML), Agentic Workflows, LangChain, LangSmith, OpenAI CLI, Claude CLI, DeepSeek, Vision Models, Voice Models, PySpark, Anomaly Detection
- **Cloud & DevOps:** AWS (Redshift, Redis, SQS, EC2, S3 Storage), Kubernetes, Docker, CI/CD (Jenkins, Git Enterprise)
- **Backend & Architecture:** Microservices, Distributed Systems, RESTful APIs, Message Brokers (Kafka, RabbitMQ), Agile/Scrum, OOD/A
- **Languages & Frameworks:** Java (8-21), Spring (MVC, Boot), Scala (Akka, Play), Python (3.x)
- **Databases & Tools:** SQL/NoSQL (MySQL, Postgres SQL, Cassandra, HBase), Confluence, Jira

PROFESSIONAL EXPERIENCE

INTUIT - Experimentation / Commerce Platform

Senior Software Engineer | Nov 2024 – May 2026

- **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** this in order to enable marketers to have more granular analytics system about their type of audience and enable them to do A/B experimentation for engage more customers to increase the revenue for the company
- *Technologies: OpenAI, Redshift, AWS, Python, Kubernetes, Kafka, AWS Lambda*

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