

MIGUEL VILÁ GONZÁLEZ

[miguel-vila @ github](#)

PROFESSIONAL EXPERIENCE

Senior Software Engineer

[SiriusXM](#)

Remote - US East Coast Timezone

November 2022 - Present

- Member of the API tooling team, part of the platform services enablement organization.
- Develop tooling using Smithy, an AWS DDL language, empowering teams to describe, implement, and consume their services.
- Key projects include:
 - Developed a system for describing which Smithy services are implemented and consumed by applications, enabling package management and dependency tracing across the platform.
 - Implemented compatibility checks to verify service changes against potential data processing breakages.
- Contributed to a team implementing semantic search using vector embeddings stored in OpenSearch.
 - Set up infrastructure to ingest catalog data and generate embeddings using different models.
 - Set up a client to query the different indexes using the embeddings.
- Led a small team implementing a reusable ingester, with the objective of allowing teams to build tables from CMS data.
 - Led conversations in order to define the requirements and solve ambiguities.
 - Proposed and implemented a solution using Scala and AWS services (a Lambda consuming a Kinesis stream, a target DynamoDB table).

Lead Software Engineer ← Senior Software Engineer ← Software Engineer

[Disney \(formerly Disney Streaming Services\)](#)

United Kingdom

January 2017 - October 2022

- Built and maintained Disney+ and ESPN+ streaming platforms as a member of various engineering teams, utilizing Scala, Python, TypeScript, and AWS services.
- Developed and maintained commerce operation services, including subscription lifecycle management, collaborating with cross-functional teams on feature delivery.
- Participated in the evolution, migration, and unification of the subscription system.
- Led a project migrating one of the subscription system's clients to a next-generation version:
 - Crafted technical proposals and guided decision-making.
 - Collaborated with client teams through technical discussions to ensure thorough understanding of requirements and edge cases.
 - Conducted research to inform the implementation.
 - Improved documentation to streamline onboarding.
 - Decomposed project work into discrete, deliverable units.
- Other responsibilities and achievements included:
 - Designed and proposed new components to enhance the subscription management system's API and domain events, collaborating with engineers on design and behavior. Resulted in improved data quality for analytics and increased visibility into the subscription lifecycle.
 - Developed and maintained a component to detect subscription overlaps between partner-issued and existing user subscriptions, automatically applying pauses or discounts per business rules. This enhanced user experience and reduced customer service costs.
 - Onboarded new team members to the subscription team, providing domain primers and iteratively improving internal documentation.
 - Authored multiple technical proposals, presenting various options, advocating for preferred solutions, and decomposing them into actionable tasks for team execution.
 - Proposed and implemented a change to test-subscription creation logic, removing reliance on naming conventions. This enabled complex scenario testing for other teams, simplified test data identification and cleanup, and reduced storage costs.
- Developed user authentication, account management, and profile management services, including multiple Scala-based microservices, as part of a separate team.

- Executed performance tests against these services to define appropriate scaling policies.
- Helped establish the infrastructure for multiple projects.

Software Engineer

s4n

Colombia

January 2013 - June 2016

- Led a small engineering team, responsible for technical decision-making and mentoring new members on the tech stack (Java, Scala, JavaScript).
- Developed enterprise software for diverse clients, primarily in the insurance sector, using Java, Scala, and JavaScript.
- Developed a REST API using Scala for an international client in the United States.

Teaching Assistant for Design and Analysis of Algorithms Los Andes University

Colombia

August 2011 - May 2012

- Evaluated student homework and exams. Organized and delivered preparatory lectures for exams.

Software Engineer CIACUA, Los Andes University

Colombia

March 2011 - August 2011

- Participated in the software reengineering of an application used for the design and simulation of water distribution systems. Documented the design in UML and fixed bugs found in a version update.

EDUCATION

Recurse Center United States of America

August 2016 - November 2016

Completed a self-directed, project-based residency for programmers, focusing on deepening expertise outside core specializations. Developed projects focused on distributed systems, concurrency, and functional programming.

Los Andes University Colombia

January 2009 - December 2012

BSc in Systems and Computing Engineering

COMPLEMENTARY EDUCATION

- [Building Agentic AI Applications with a Problem-First Approach](#) (via Maven). Completed 2025.
- [AI Builders Bootcamp](#) (via Maven). Completed 2025.
- [Senior Engineer to Lead: Grow and thrive in the role](#) (via Maven). Completed 2025.
- [Cloud Computing Applications, Part 1: Cloud Systems and Infrastructure](#), University of Illinois Urbana-Champaign (via Coursera). Completed 2025.
- [AI Agents Fundamentals](#), Hugging Face. Completed 2025.
- [A Technical Leader's Qualities and Effectiveness](#), University of Colorado Boulder (via Coursera). Completed 2024.
- [Introduction to Corporate Finance](#), University of Pennsylvania (via Coursera). Completed 2024.
- [Financial Markets \(with Honors\)](#), Yale University (via Coursera). Completed 2021.
- [Intro to Data Science](#), Washington University (via Coursera). Completed 2013.
- [Machine Learning](#), Stanford University (via Coursera). Completed 2012.

VOLUNTEERING

Climbing Clan Manchester, United Kingdom

April 2023 - October 2024

Active member of a climbing community in Manchester. Volunteered periodically, teaching belaying techniques and assisting with administrative tasks.

ACHIEVEMENTS AND AWARDS

- “[Quiero Estudiar](#)” Scholarship. Awarded full scholarship for undergraduate studies at Los Andes University (October 2008).
- Qualified for the Latin American Regional International Collegiate Programming Contest (ICPC), 2011.
- Qualified for the Latin American Regional International Collegiate Programming Contest (ICPC), 2012.

TECHNICAL SKILLS

Programming Languages

(in order of skill):

Scala, Java, Python, Javascript, TypeScript.

Infrastructure:

Mostly AWS. Cloudformation, CDK, DynamoDB, Kinesis, ECS, CloudWatch.

OPEN SOURCE SOFTWARE CONTRIBUTIONS

Over the course of my career, I have contributed to numerous open-source projects. These contributions were often driven by project requirements—fixing bugs or adding features necessary for my work. Below are some of my most notable contributions:

- [scalaz #750](#): Added new functionality, applying learned functional programming concepts.
- [zio-metrics #53](#): Improved the external API of a metrics library for enhanced usability.
- [smithy-translate #42](#): Fixed a critical bug in a dependency function, addressing an edge case unknown to maintainers and restoring library utility.
- [spotbugs #2988](#): Fixed a bug in the SpotBugs static analysis tool related to reference comparison linting, addressing a common source of Java errors.
- [smithy #2221](#): Extended OpenAPI conversion to correctly handle deprecated annotations.
- [opensearch-java #1005](#) & [opensearch-api-specification #304](#): Extended the OpenSearch Java client to support text embeddings.
- [opensearch-api-specification #324](#): Enhanced the OpenSearch API specification testing framework to allow step output chaining, enabling more complex test scenario execution.

SIDE PROJECTS

Personal projects available at: miguel-vila.github.io/side-projects.html