Nafer Sanabria

Software and Data Engineer

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Profile Summary

I am a software engineer with over nine years of experience in the software engineering industry.

I have a valuable base of knowledge and working experience architecting and developing scalable and high-performance distributed and data processing systems following modern software engineering practices.

I have participated in several projects across many domains including finance, retail, loyalty platforms, insurance, health, working as part of agile, collaborative, and cross-discipline teams in distributed settings.

Skills

Professional skills Communication Skills | Problem solving | Prioritization | Analytical and process-oriented mindset

Technical skills Scala | Java | Python | Akka | Spring Framework | Kafka | Spark | Flink | Cassandra | SQL | PostgreSQL | Play Framework | Cats Effect | gRPC | AWS | Azure | Kubernetes | Docker | Git

Work Experience

Senior Scala Engineer | **Xebia** | Contractor May 2024 - Present

Responsibilities:

- Contributed to the architecture of a new service
- Implemented Scala 3-based libraries for general usage across the organization
- Migrated a set of APIs from a legacy booking service

Technologies: Scala 3, Play Framework, Akka/Pekko

Senior Data Software Engineer | **SII Group** | Remote October 2023 - February 2024

Responsibilities:

- Design and build services for integrating external sources of financial information
- Contribute to the Data Pipeline Architecture by reviewing and proposing new techniques, patterns tools and important architectural changes to the architecture
- Enhance internal data processing framework for facilitating emerging needs in new processing pipelines
- Implement a data analysis tool for categorizing financial transaction records
- Adjust infrastructure provisioning Terraform files for AWS EMR, S3, Glue, Lake Formation services

Technologies: Scala, Java, Spark, Flink, Python, Pandas, Apache Hadoop, AWS, HBase, Airflow, dbt

Senior Scala Developer | **Scalac SP** | Contractor September 2021 - June 2023

Responsibilities:

- Contribute to the Architecture Decision Records (ADR) repository by reviewing and proposing new techniques, patterns tools and important architectural changes to the architecture
- Design and implementation of data processing pipelines using Scala, Typelevel fs2 and Apache Kafka
- Design and development of RESTful APIs built on top of Play Framework to provide new backend services and enable new business capabilities for the company's healthcare and wellness digital products
- Assess and troubleshoot of production issues and bugs
- Implement SQL scripts for data migration
- Adjust infrastructure provisioning files according to the internal microservices needs
- Maintain existing and implement new data ingestors to consume information from external sources
- Work closely with frontend engineers, business analysts, and product owners to refine and build new features
- Enhance technical and business metrics dashboards
- Review Product Requirement Documents (PRDs)

Technologies: Scala, Java, Akka, Apache Kafka, Debezium, Groovy, PostgreSQL, Play Framework, Typelevel fs2, Cats, Cats Effect, Zio, Doobie, AWS, Kubernetes, Docker, Jenkins, Datadog

Lead Software Engineer | **EPAM Systems** | Full-time February 2022 - September 2022

Responsibilities:

- Collaborated and built an event-driven microservice-based architecture for processing financial information coming from Walmart stores across the US
- Implemented new REST APIs to encapsulate access to legacy databases
- Designed and implemented data ingestion processes for computing financial information intended for business-level reporting

Technologies: Scala, Apache Spark, Apache Kafka, Azure, Akka, PlayFramework, DB2

Backend Software Designer | **Overactive LLC** | Remote September 2020 - September 2021

Responsibilities:

- Design and implement new endpoints APIs with Akka HTTP to provide new document processing capabilities to the platform
- Refactor technical debt
- Introduce new changes and adjustments to the CI/CD pipelines
- Integrate the services API with Apache Airflow for properly orchestrating business flows

- Troubleshooting of cluster production issues
- Optimization and maintenance of the internal document processing engine to improve the performance and scalability of the backend services
- Work closely with external IT vendors and stakeholders across the company to improve the accuracy of the document processing results

Technologies: Scala, Java, Python, Akka Cluster/HTTP/Streams, Cats Effect, Apache Kafka, Apache Spark, Apache Airflow, Azure, Kubernetes, ABBYY OCR

Software Engineer | **Addi** | Remote November 2019 - April 2020

Responsibilities:

- Review and contribute to the Architecture Decision Records (ADR) for the evolution of the platform
- Design and implement integrations with external services
- Refine credit scoring algorithms based on new sources of information
- Assess, diagnose, and fix data processing performance issues in event sourcing microservices
- Develop data migration and processing jobs
- Develop performance metrics dashboards and application monitoring mechanisms

Technologies: Java, Python, R, Vertx, PostgreSQL, Pandas, Reactor Core, Apache Kafka, Apache Spark, Docker

Backend Developer | **Rappi** | Remote September 2019 - November 2019

Responsibilities:

- Re-architect and planning of the new microservice-based architecture for the Loyalty domain
- Migrate existing functionalities from a monolithic-based (PHP) application to a microservice architecture
- Design and implementation of emerging loyalty-related features and business capabilities
- Migrate existing data to a new database and tables
- Assess and debug API integration issues with the Mobile team
- Collaborate with QA engineers to guarantee the quality of the delivery
- Plan the release and deployment with the product owner and engineers

Technologies: Java, Spring Framework, Reactor Core, Hibernate, PostgreSQL, Apache Kafka, Docker

Senior Scala Engineer | **Scalents LLC** | Remote June 2019 - October 2019

Responsibilities:

- Review and contribute to the Request For Comments (RFC) repository to document relevant changes in the architecture
- Develop data ingestion mechanisms to connect and extract information from E-Commerce platforms
- Enable UI functionalities for user defined functions in Javascript
- Develop integrations with caching systems to reduce HTTP requests response times

Technologies: Scala, Java, Akka, Play Framework, Lift Framework, Javascript, Slick, Redis, RabbitMQ, AngularJS, React, HTML/CSS

Software Engineer | **S4N** | Medellín, Colombia May 2015 - May 2019

Responsibilities:

- Architect resilient and scalable event-driven components
- Analyze requirements from product owners and coordinate with stakeholders to effectively drive execution from ideation to delivery
- Plan and develop RESTful and gRPC APIs to expose backend services
- Integrate multiple data sources and databases using Akka Streams and Spark
- Design streaming and data intensive systems
- Leverage alerting and monitoring services
- Develop CQRS-based components to optimize write and read operations

Technologies: Scala, Java, Akka Actor/HTTP/Streams/Persistence/Cluster/Sharding, Python, Play Framework, Slick, AngularJS, Apache Kafka, Apache Spark, Apache Flink, Hystrix, ElasticSearch, PostgreSQL, SQLServer, RabbitMQ, Cassandra, GraphQL, gRPC, Ethereum, AWS, Docker, Kubernetes

BPM & SOA Consultant | **Sol4IT** | Mexico City, Mexico July 2014 - February 2015

Responsibilities:

- Design of four BPM workflows for project approval processes using Oracle BPM
- Implement integrations with internal SOAP-oriented services
- Collaborate with stakeholders refining and clarifying the solution
- Integration of backend services with user-facing applications

Technologies: Java, Oracle ADF, Oracle SOA Suite, HTML/CSS

Education

Bachelor's Degree
Corporación Universitaria del Caribe, Colombia (2008 - 2013)

Certifications

[PCEP-30-02] PCEP – Certified Entry-Level Python Programmer
Certification Date Oct 2023 – Present
https://www.credly.com/badges/846e7fc0-c732-4193-93c8-00c13f11de56

Lightbend Akka for Scala - Professional
https://academy.lightbend.com/certificates/e2128a6d093c435e85192d460d8f2065

Lightbend Scala Language - Professional
https://academy.lightbend.com/certificates/37e3e7813c9c49c5b4bde1bbb7bcc255

Practical Ethical Hacking - The Complete Course - Udemy
Certification Date Aug 2020 – Present
Certificate UC-ca1d2339-5204-46fe-a8da-bda373a643a7

Functional Program Design in Scala - Coursera
Certification Date Aug 2016 – Present
License V4EU7TZUXTMH

Functional Programming Principles in Scala - Coursera
Certification Date Jul 2016 – Present
License PSK5CEF6DAG