

Marco Sabatini

Professional Summary

Engineering leader with 15+ years of experience in building scalable data platforms, distributed systems, and cloud infrastructure across fintech, cybersecurity, and travel-tech industries. Proven track record in leading engineering teams, designing modern data architectures, and delivering production-grade data platforms for analytics, risk modeling, and data-driven decision making. Strong expertise in data pipelines, big data ecosystems, cloud-native infrastructure, and platform engineering. Passionate about mentoring engineers, building high-performing teams, and aligning technical platforms with business strategy.

Core Competencies

Data Platform Architecture

- Data Lakehouse architectures
- Data ingestion and processing pipelines
- Streaming and event-driven systems
- Data lifecycle management
- Data quality and reliability

Cloud Data Platforms

- AWS & Azure storage solutions
- AWS & Azure RDS databases
- Kubernetes container orchestration
- Infrastructure as Code with Terraform

Data Engineering & Technologies

- Apache Spark for big data processing
- Databricks for data analytics
- SQL and NoSQL databases (Oracle, MySQL, PostgreSQL)
- Elasticsearch and SOLR for search
- Data orchestration and microservices architecture
- Programming: Python, Java, Ruby, TypeScript, Bash

Leadership & Strategy

- Engineering team leadership and management
 - Platform strategy and architecture design
 - Cross-team technical coordination
 - Stakeholder alignment with product and business teams
 - Mentoring and developing engineering talent
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Professional Experience

Associate Director – Software Engineering

UBS – Lugano, Switzerland

November 2024 – Present

Lead a team of 15 engineers responsible for migrating financial risk models to cloud-native data platforms supporting enterprise analytics and risk management.

Key Achievements

- Led migration of US mortgages probability of default and loss given default risk modeling workloads from on-premises to Azure cloud platforms, managing a portfolio of 100,000 mortgages across the entire US
- Designed scalable architecture using Azure Kubernetes, Databricks, and cloud storage
- Implemented Infrastructure as Code with Terraform for standardized deployments
- Improved scalability and reliability of data processing pipelines for quantitative team of 5 people
- Coached four engineers and promoted engineering best practices across the team

Technologies: Azure Storage, Kubernetes, Databricks, Python, Terraform, Docker, Oracle Database, GitLab

Senior Software Architect

Denexus – Lugano, Switzerland

May 2022 – November 2024

Architected and developed cyber risk intelligence platform for aggregating and enriching large-scale network asset and vulnerability data.

Key Achievements

- Designed cloud-native platform for cybersecurity data ingestion, enrichment, and indexing
- Built scalable data pipelines using Python and Databricks for intelligence data processing
- Implemented microservices in Python using Fast API for data discovery and search across industrial networks
- The platform calculates risk for approximately 20 sensitive industrial plants in the USA and Europe, involving ingestion of terabytes of data and optimized model execution in minutes
- Collaborated with leadership on platform architecture and roadmap development
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Technologies: AWS (ECS, EC2, S3), Databricks, Python, FastAPI, Terraform, Docker, PostgreSQL, Splunk

Senior Software Engineer

Nozomi Networks – Mendrisio, Switzerland

November 2020 – May 2022

Developed data services for industrial cybersecurity analytics platforms.

Key Achievements

- Built systems for collecting, processing, and enriching vulnerability intelligence data
- Led security research engineering team for vulnerability workflows
- Collaborated with SRE teams on AWS infrastructure using Terraform
- Improved data reliability and operational monitoring

Technologies: AWS, Terraform, Elasticsearch, SOLR, Docker, Ruby, JavaScript, MySQL

Tech Lead

lastminute.com – Chiasso, Switzerland

November 2018 – November 2020

Technical leader in travel platform engineering organization.

Key Achievements

- Led backend teams developing high-scale travel microservices
- Coordinated cross-team optimization using production KPIs
- Supported migration to cloud-based infrastructure
- Mentored engineers and promoted best practices

Technologies: Kotlin, Java, MySQL

Senior Agile Software Engineer

lastminute.com – Chiasso, Switzerland

November 2015 – November 2018

Engineer on Big Data pricing analytics platform team.

Key Achievements

- Designed and developed data pipelines for flight pricing analytics
- Built distributed processing workflows using Spark on Google Cloud
- Contributed to migration from monolithic to microservices architecture
- Supported data-driven pricing optimization with product teams

Technologies: Scala, Apache Spark, Google BigQuery, Dataproc, Kotlin, Java

Earlier Experience

Solution Architect Consultant

Wedjaa – Rome, Italy

2011 – 2015

Technology consulting and custom software development for enterprise customers.

- Conducted architecture assessments and technology evaluations
- Developed enterprise integrations and solutions
- Provided technical training on Java performance and Golang

System Analyst

IDS – Rome, Italy

2009 – 2011

Developed software systems for aerospace navigation domain.

- Supported flight procedures and obstacle management systems
- Analyzed requirements and designed system architectures

Software Developer

IBM – Rome, Italy

2008 – 2009

Developed search technology for publishing market using Apache Lucene.

- Implemented search functionality and indexing solutions
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Education

Master of Science in Computer Science

University of Rome Tor Vergata, Italy

Thesis: Integration of Legacy Systems Using SOA Principles

Grade: 107/110

Professional Development

- Advanced Test Driven Development – J.B. Rainsberger
- Surviving Legacy Code – J.B. Rainsberger
- Applied Functional Programming – Avanscoperta
- Machine Learning & Predictive Analytics – Simone Scardapane
- Secure Coding – Nozomi Networks