RAFFAELE PRINCE

Software Developer Engineer

@ raffaele.princee@gmail.com ☎ +39 3317334889 ✉ Keizersgracht 698, 1017 EV 📍 Amsterdam, The Netherlands
🌐 raffsstein.github.io 𝕏 @SteinRaff in raffaele-prince RaffSStein

SUMMARY

Hi y'all! I'm Raffaele, a **Software Developer Engineer** with more than **five years** of experience, specializing in web application frameworks, with a strong focus on **backend development and enterprise architecture**. I design scalable software architectures for data platforms, leveraging my deep expertise in **Spring/Spring Boot**. I have worked with clients in the **insurance and banking** industries, delivering robust and high-performance solutions. I'm also passionate about **AI** and it's use in the day-by-day coding activities... that's why I'm pursuing a personal learning path focused on **integrating AI technologies into daily software engineering workflows**.

WORK EXPERIENCE

Enterprise Architect Senior Consultant

Accenture

📅 April 2024 – Ongoing 📍 Bari, IT (remote)

For both Mobility and Insurance clients, I am leading the development of robust, cloud-native, **microservice based** backend systems and scalable infrastructures.

- As an Enterprise Architect, I have designed and implemented cloud architectures on **GCP** and **AWS**, according to client demands and requirements.
- Developed microservice systems using **Spring Boot + PostgreSQL** and **Quarkus + MongoDB** stacks, along with event based communication with both **Kafka** and **Pub/Sub**.
- Integrated **GCP** and **AWS** services including **Google Cloud Storage**, **S3 Bucket**, **Firestore** , and **MongoDB** for non-relational databases.
- **Led** a cross-functional team as **code delivery manager**, ensuring that **best practices** were respected during the product life-cycle.
- Oversaw **cloud cost optimization** and system performance tuning.
- Facilitated technical onboarding and mentoring within the team.

GCP AWS Spring Boot Quarkus OOP (Java 8, 17, 21 & Kotlin) Postgres & Mongo & Firestore Git & GitHub & Bit-bucket
Kafka & Pub-Sub Docker Kubernetes REST APIs GitHub Actions (CI/CD)

Junior-Mid Backend Developer

Open Reply

📅 April 2021 – June 2024 📍 Bari, IT (remote)

Since starting my work journey, I have worked as a **backend developer** on a **Wealth Management Platform** in the banking sector for a leading client here in Italy, focusing on the **development and maintenance** of a monolith application using Spring Boot.

- **Developed and maintained** a monolith application using Spring Boot.
- **Optimized Oracle** databases, including complex query tuning.
- **Implemented complex batch processing solutions** for large data workflows.
- Automated data loading and delivery with **Bash and SQL scripting**.
- Performance tuning and scalability improvements were performed across the system, resulting in a **40% speed increase in data fetching and API response time**.
- Mentored junior developers and supported onboarding activities by developing an **automated internal onboarding framework which saved time** for both new joiners and working colleagues.

Spring & Spring Boot Oracle DB Monolith Bash & SQL Performance Optimization OOP (Java 8) JMeter & Jquery

IT Specialist

Studiodichiara SRL

📅 June 2015 – September 2018 📍 Policoro, IT (on site)

Worked as an **IT collaborator** during high school, providing support in web development, training, and technical services for public administrations.

- Developed and maintained websites using Joomla 3 CMS.

- Provided IT support and hardware maintenance services.
- Delivered ECDL (AICA) courses as coordinator and tutor.
- Implemented LAN, WLAN, and captive portal systems for municipalities.
- Offered technical services to public administration clients.

`Joomla 3 CMS` `ECDL Tutoring` `LAN & WLAN` `Public Administration IT` `PC Hardware Maintenance`

REPOSITORIES

Wealth Management Platform - BE

github.com/RaffSStein/Wealth-Management-Platform-BE

In order to improve my knowledge (& passion) in investment topics, I'm implementing a microservice-event based architecture for a Wealth Management Platform. The BE is being built using SpringBoot, along with Kafka for event management and PostgreSQL for database. The goal here is to build a monorepo containing different microservices which will handle domain specific tasks. Event are used across microservice for making them communicate asynchronously. API are exposed in order to enable the FE to start different process. More AI integration are coming soon, like:

- integration and development of a plug-and-play AI microservice
- AI Event Analyzer: Microservice that consumes events from the bus (e.g. portfolio_updated) and produces insights: anomalous patterns in returns, predictive alerts, natural language descriptions for the FE. An AI that "listens" and enriches your existing microservices.
- an "enterprise-grade" AI architecture, reusable by all microservices, that handles requests to different models (e.g. GPT-4, Claude, on-premise models), logs prompts and tokens, and exposes a usage & metrics dashboard.
- tangible demonstration of embedded AI in the platform -> FE module that allows the advisor to "talk" to the system:
  - input: natural language prompt ("show me the clients with negative performance in the last 6 months")
  - backend: LLM + RAG $\rightarrow$ generated and validated SQL query
  - output: table or chart

Wealth Management Platform - FE

github.com/RaffSStein/Wealth-Management-Platform-FE

FE repo is entirely written with Angular. The goal is to maintain a light and clean format, keeping a powerful and streamlined interface. The integration between FE and BE is done via OpenAPI yaml files shared between the two repositories. This enables dynamic and incremental updates between the two layers, increasing modularity and separation.

EDUCATION

Bachelor's Degree in Computer Science

University of Bari "Aldo Moro"

📅 October 2017 – April 2021 　　　　　　　　📍 Bari, IT

Final grade: **106/110**
Thesis: *Application of **clustering algorithms** for the analysis of genetic data*
Mainly focused on the techniques of software engineering. Some topics which were covered for my thesis:

- Clustering algorithms (e.g. K-Means, DBSCAN, Hierarchical)
- Dimensionality reduction techniques (e.g. PCA, t-SNE)
- Bioinformatics and genetic data preprocessing
- Feature extraction from high-dimensional datasets
- Python stack (NumPy, Pandas, scikit-learn, matplotlib)
- Evaluation of unsupervised learning methods
- Data visualization and interpretation in biological context

`C++` `Java` `MySQL` `Python`

High School Diploma in Information Technology

ITCG "Manlio Capitolo"

📅 September 2011 – July 2016 　　　　　　　　📍 Tursi, IT

Final grade: **90/100**

- Network systems
- Computer architectures

- Programming basics

C | Java | PHP | MySQL | JavaScript | HTML | CSS

CERTIFICATIONS

TOGAF® 9.2 Certification (Level 1)

The Open Group

📅 In progress

- Enterprise Architecture Principles
- Architecture Development Method (ADM)
- TOGAF Content Framework & Metamodel
- Architecture Governance and Capability Framework

ArchiMate | TOGAF ADM | Sparx EA | BPMN

Cisco IT Essentials Certification

Cisco Networking Academy

📅 May 2016

- Computer Hardware & Software Fundamentals
- OS Installation and Configuration
- Networking Basics and Security
- Preventive Maintenance and Troubleshooting

Windows | Linux | Cisco Packet Tracer | BIOS/UEFI | TCP/IP

ICDL Standard Certification

ICDL Foundation

📅 June 2017 – July 2017

- Digital Literacy and Productivity Tools
- Word Processing (e.g. MS Word)
- Spreadsheets (e.g. MS Excel)
- Presentations (e.g. MS PowerPoint)
- Online Collaboration and Cloud Tools

Microsoft Office Suite | Google Drive | File Management

ICDL Full Standard Certification

ICDL Foundation

📅 June 2017 – July 2017

- Advanced Office Productivity
- Database Management Basics
- IT Security and Data Protection
- Online Services and Collaboration
- Computing Essentials

Microsoft Access | LibreOffice | OneDrive | Google Docs

ICDL IT Security Certification

ICDL Foundation

📅 June 2017 – July 2017

- Data Protection and Privacy
- Secure Web Browsing and Communication
- Malware and Threat Prevention
- Device and Network Security Practices

Antivirus & Firewall | Secure Email (SSL/TLS) | VPN | Two-Factor Authentication

HARD SKILLS

REST APIs & gRPC   Spring & Spring Boot

Kubernetes   Docker   Postgres & Oracle

MongoDB & Firestore   Google Cloud Platform

AWS   Git   OOP (Java, Kotlin, C++, C#)

Kafka & Pub/Sub & RabbitMQ

CI/CD (GitHub Actions)   GitHub Copilot

Python, NumPy, Pandas, Scikit-learn

SOFT SKILLS

Requirement Analysis   Team Leading

Project Management   Problem Solving

Result-Oriented   Agile Methodologies

LANGUAGES

Italian (Native)   ●●●●●
English (B2)   ●●●●○