

# Simone Caminati

## SENIOR SOFTWARE ENGINEER

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## Summary

I am a **Software Engineer** with over **10 years** in the IT industry, specializing in **full-stack development** of **web and mobile applications** and **user interface design**. Currently serving as a **Software Development Senior Specialist** at **BV TECH S.p.A.**, where I contribute to the evolution of **PagoPA**, the digital payment platform used by all Italian citizens. Previously, I led the design and development of **hybrid mobile apps** and **web-based solutions** at **Exaltech S.r.l.**, gaining extensive experience in both **front-end and back-end technologies**.

## Skills

<b>DevOps</b>	Azure, Docker, Kubernetes (AKS), CI/CD Pipelines, Terraform, Jenkins, OpenShift, Agile Scrum
<b>Back-end</b>	Spring Boot, Express, Fastify, REST API, Drools, Camunda
<b>Front-end</b>	NextJs, TailwindCSS, Angular, React, VueJs
<b>Data</b>	Mongo, Redis, OracleSQL, PostgreSQL
<b>Mobile</b>	Android, Ionic, Capacitor, Cordova
<b>Programming</b>	Node.js, Javascript, Typescript, Functional programming (fp-ts), Kotlin, JAVA
<b>Languages</b>	Italian (native), English (professional)

## Experience

### BV TECH S.p.A.

*Remote*

SOFTWARE DEVELOPMENT SR.

*July 2024 - Present*

SPECIALIST

- Software development consultant at **PagoPA**. Main activity involves **optimizing existing payment processes** and **adding new features** to improve user experience and increase platform efficiency. The agile framework **Scrum** was used for development.
- Development of communications management software for the Lombardy region.

### Exaltech S.r.l.

*Latina*

SOFTWARE ENGINEER

*May 2013 - July 2024*

- Software development consultant at **Reply technologies**, **Poste Italiane**, **Ministero di Giustizia**.
- Mobile: **e-commerce** application for online shopping.
- Mobile: **aerial equipment calibration tool** for precise field adjustments and diagnostics.
- Mobile: **social network** for multimedia sharing, where followers can view and interact with content.
- Mobile: **delivery management app** for deliveryman to receive, track, and complete orders.
- Mobile: **Explora Latina**, exploring the historical, cultural, and natural sites. Presented at **Expo Milano 2015**.
- Web: **controlling accesses of booked accommodation** with Nuki smart key.
- Web: **Access control system** for industrial companies to manage and monitor entry points securely.
- Web: **booking guided tours** platform with real-time availability and reservation management.

## Main Projects

### PagoPA Checkout

*July 2024 - April 2025*

SPRING BOOT, JAVA, KOTLIN, REACT,

*BV TECH S.p.A.*

NODE, REDIS, CI/CD PIPELINES,

AZURE, DOCKER, TERRAFORM, SCRUM

- Maintained and enhanced all components of the payments platform, focusing on both **frontend** and **backend** performance optimization.
- Developed **unit tests** to ensure full coverage of **React** components, improving code reliability and maintainability.
- Optimized the Wallet API by integrating **Redis caching**, achieving an **60% reduction** in response time.
- Implemented an **authentication flow using SPID**, the Italian digital identity system, to ensure secure user access.
- Designed **CI pipelines** for automated deployments, including **unit and integration testing** across UAT and production environments.
- Performed **soak testing** using K6 to validate the stability and performance of **Node.js microservice** after the upgrade to version 22.

### Ministero di Giustizia

*Jan 2024 - July 2024*

JAVA, SPRING BOOT

*Exaltech S.r.l.*

- The website serves as the **official portal for public sales** related to judicial auctions in Italy.
- Designed and implemented** a process for receiving telematic offers from prospective buyers in judicial sales.
- Developed a system to read certified electronic mail (PEC) and **securely store encrypted offers**, which are automatically decrypted and opened three hours prior to the scheduled judicial hearing.
- Managed external communications** and outcome reporting through SOAP-based web services, ensuring compliance with legal and procedural standards.
- Orchestrated process execution** using batch jobs that **concurrently** access the database, monitoring and updating the status of individual workflows.

### Smactory

*May 2016 - July 2024*

JAVASCRIPT, ANGULARJS, CORDOVA

*Exaltech S.r.l.*

- SMACTORY** is a set of intuitive solutions, able to get you more information in real time about the status of your machinery, processes and human-machine interactions.
- The platform integrates advanced features such as **augmented reality**, **beacon detection**, **QR code scanning**, and **video calling** to enhance user experience and operational efficiency.
- Designed and developed** a responsive web application compatible with **all devices**, using a single codebase. The application was converted into a hybrid mobile app using the Cordova framework.

## Education

### Sapienza University

*Rome*

INFORMATION ENGINEERING

*Aug. 209 - Dec. 2012*

(BACHELOR'S DEGREE)

- Degree grade: 108/110
- Thesis: Implementazione e analisi sperimentale di algoritmi di data streaming su piattaforma GPU