

Alonso Rapado

Mid - Senior Software Engineer
Madrid, Spain



+34 606894886 alonso.rapado@hotmail.com [LinkedIn: alonso-rapado](#) [GitHub: ByAlonso](#)
[Portfolio: arapado](#)

Backend Software Engineer with 5+ years of experience building reliable applications and APIs. I have worked across different scales; from early-stage prototypes to enterprise AI solutions. I am comfortable with full-stack development and I collaborate well with Frontend teams when projects require it. While my main focus is backend and full-stack work, I'm also comfortable deploying and maintaining apps in the cloud. Currently splitting time between Madrid and Copenhagen, focused on creating software that makes a real difference.

Experience

Software Engineer <i>Ford Credit (FCE)</i>	Nov. 2025 – Present <i>Madrid, Spain</i>
<ul style="list-style-type: none">Developed and maintained Java Spring Boot backend services for financial applications.Deployed and monitored applications on Google Cloud Platform (GCP)Improved existing systems through bug fixes, performance optimizations, refactoring and metrics	
Senior Software Engineer <i>NTT Data Business Solutions</i>	Nov. 2024 – Nov. 2025 <i>Copenhagen, Denmark</i>
<ul style="list-style-type: none">Developed and deployed a Generative AI solution for Børns Vilkår using FastAPI, MongoDB, and Azure OpenAI, reducing processing time from hours to minutes and optimizing efficiency. Performed hands-on model evaluation and prompt tuning.Built and maintained a validation API with AI support using Python, Terraform, and IBM WatsonX, enhancing data reliability and automation across SAP systems.Contributed to Angular frontend development for the ROCCAI platform, collaborating on UI architecture design and ensuring integration with backend services.Enhanced React-based Warehouse Optimizer project using TypeScript, Drizzle ORM, and Effect framework, improving functionality and system performance.	
Software Engineer <i>MOTOROLA SOLUTIONS</i>	Sep. 2023 – Nov. 2024 <i>Copenhagen, Denmark</i>
<ul style="list-style-type: none">Developed robust microservices using Elixir with fault-tolerant design principles to improve system scalability and reliability in critical communications infrastructure.Built and maintained Spring Boot REST APIs for microservices architecture, ensuring high availability for mission-critical communication systems.Implemented and integrated message brokers including NATS, RabbitMQ, Kafka, and Azure EventHubs for event-driven communication.Conducted unit testing with JUnit and ExUnit, plus integration testing using PACT contracts and TILT to ensure code quality and system reliability.Managed containerization and orchestration using Docker and Kubernetes with Infrastructure as Code principles for automated deployment pipelines.	

Part time Software Engineer <i>MOTOROLA SOLUTIONS</i>	Jun. 2022 – Sep. 2023 <i>Copenhagen, Denmark</i>
---	--

- Maintained and optimized **Jenkins CI/CD pipelines**, VM environments, and physical servers to ensure consistent system performance and reliability.
- Implemented **automated UI and unit testing** frameworks using **Selenium and RobotFramework** with Python, reducing manual testing overhead.
- Led automation project focused on **optimizing power consumption** and computational balance in production servers, improving operational efficiency and resource utilization.

Junior Software Engineer <i>INDRA Sistemas</i>	Jan. 2021 – Aug. 2021 <i>Madrid, Spain</i>
--	--

- Developed **Angular components** based on UX designs within a dashboard framework, implementing library-oriented architecture patterns for code reusability.
- Integrated client-side services with **Java Spring Boot backend** using **REST APIs**, ensuring reliable data flow and consistent user experience.
- Collaborated in **Agile development environment** with iterative delivery cycles, participating in sprint planning, daily standups, and retrospectives.

Software Engineer Intern <i>TELEFONICA</i>	Dec. 2019 – Dec. 2020 <i>Madrid, Spain</i>
--	--

- Transformed conceptual requirements into working **prototypes using Python, TypeScript, and MongoDB**.
- Collaborated with **cross-functional teams** to align prototype development with user requirements and business objectives.
- Maintained and extended dashboard application features using **.NET, TypeScript, Azure, SQL Server**, and Docker containerization.

Programming and Robotics teacher <i>Multiple institutions</i>	2017 – 2019 <i>Madrid, Spain</i>
---	--

Education

MSc. in Autonomous Systems Engineering <i>Denmark Technical University</i>	2021 – 2023 <i>Lyngby, Denmark</i>
BEng. in Software Engineering <i>U-TAD (Centro Universitario de Tecnología y Arte Digital)</i>	2016 – 2020 <i>Madrid, Spain</i>

Technical Skills

Programming Languages: Java, Python, Elixir, TypeScript, JavaScript, C++
Frontend and Frameworks: React, Angular, Vue, HTML, CSS, Sass, Tailwind
Backend and Services: Spring, .NET, Node.js, Kafka, Flask, FastAPI
Cloud and DevOps: Azure, Kubernetes, Docker, Terraform, GitHub Actions, Jenkins, IBM Cloud, Linux, GCP
Databases and Tools: PostgreSQL, MongoDB, Postman

Languages

English - C1 Cambridge Advanced | 2021

Spanish - Native