Diego Sánchez Rincón

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Software Engineer specialized in backend development, distributed systems, and cloud architectures. Experience designing and developing scalable applications using technologies such as Python, FastAPI, Spring Boot, React, Docker, and AWS, contributing to enterprise projects built on microservices and software architecture best practices.

PROFESSIONAL EXPERIENCE

Génexys Technology **Madrid, Spain**
Full Stack Developer *February 2026 – Present*

- Own the design, development, and maintenance of 7 microservices using Python, FastAPI, and AWS.
- Designed and implemented, in collaboration with the CTO, a distributed telemetry ingestion and processing platform using AWS Kinesis, Lambda, SQS, DynamoDB, and PostgreSQL, designed to support up to 300,000 vehicles.
- Optimized asynchronous processing, vehicle state storage in DynamoDB, and PostgreSQL connection pooling, conducting load tests with JMeter to evaluate performance.
- Contribute to system architecture, multi-tenant design, and engineering standards, driving technical decisions documented through Architecture Decision Records (ADRs).
- Developed offline navigation solutions for embedded systems, web and mobile interfaces, and an in-vehicle interface using LVGL.
- Built agentic development workflows using Claude Code, specialized agents, and reusable skills to automate tasks and streamline engineering processes.

Telefónica Innovación Digital **Madrid, Spain**
Full Stack Developer *July 2025 – December 2025*

- Developed web interfaces using Next.js and Mística, following SEO and WCAG accessibility guidelines, and internal tools with React, Express, and MongoDB to automate audit management.

EDUCATION

Universidad Rey Juan Carlos **Madrid, Spain**
B.Sc. in Software Engineering - GPA: 8.31 / 10 *2022 - 2026*

- Bachelor's Thesis graded 10/10 and awarded the Honours distinction.
- Honors in Web Development, Operating Systems, and Data Structures.

PROJECTS

TripFlow - Bachelor's Thesis *July 2025 - June 2026*

- Developed a microservices-based Progressive Web App using React and Spring Boot, integrating generative AI and real-time collaboration through WebSockets.

TECHNICAL SKILLS

- **Backend:** Python, FastAPI, Java, Spring Boot, Node.js, Express.
- **Frontend:** React, Next.js, Angular, TypeScript, JavaScript, HTML, CSS, LVGL.
- **Infrastructure & Data:** AWS, Docker, Apache Kafka, PostgreSQL, MongoDB, Redis, CI/CD.
- **Tools:** Git, Bitbucket, Jira, VS Code, Postman, SonarQube, Claude Code, GitHub Actions.
- **Languages:** Spanish (Native), English (B2 - Cambridge First).