

Senior software engineer that turns ideas into reliable, good-looking products. Comfortable hopping between TypeScript/Node, Go, Java, and Python, wiring them up to SQL or MongoDB, and polishing the UI in React, Vue, or Nuxt. I care about clean, secure code, real-time pipes (NATS, MQTT, V2X), and interfaces that feel as smooth as they look.

Work Experience

Senior Software Engineer Valencia, Spain	Lumibit	2024–Present
<ul style="list-style-type: none">Lead end-to-end development of BMW engineering tools—from requirements gathering and UX design to coding and cloud deployment.Shipped a firmware-flashing application that lets engineers load test builds onto prototype vehicles in minutes instead of hours.Built an interactive dashboard that visualizes each car’s internal electronic map, giving teams instant insight into network topology and fault points.Architected data and job-queue layers with PostgreSQL/MongoDB, Redis + BullMQ, and GraphQL APIs to keep performance snappy and workflows reliable.		
Senior Software Engineer Valencia, Spain	ETRA I+D Research and new technologies department	2023–2024
<ul style="list-style-type: none">Delivered a public transport digital twin for the EU UPPER project (React + Deck.GL on the front end, Go/Node microservices and NATS on Kubernetes on the back end) to stream, map, and analyze live public transport data, used with more than 10.000 concurrent vehicles.Created a Kepler.GL-based historical public transport data analytics application to analyze transport coverage and user flows, and facilitate decision-making, used to analyze more than 10 million origin-destination entries.Technical lead for the EU UNCHAIN project, which aimed to improve last-mile logistics in cities using various analytics software and IoT devices on public roads.Implemented an improved automated code quality review system in the department, which helped reduce errors, improve the code refactorings and technical debt.		
Full Stack Developer Valencia, Spain	Bonsel	2022–2023
<ul style="list-style-type: none">Led the migration of core application components from Vue to a Nuxt 3 monorepo, improving maintainability and scalability.Played a key role in enhancing the platform’s performance and architecture.Created a sharing system with QR codes and OG data to improve the user engagement.		
Software Engineer Remote, Spain	ThermoHuman	2021 - 2022
<ul style="list-style-type: none">Worked on developing and maintaining a performance-tracking platform for elite athletes, including professional football players and Olympic competitors.Focused on improving the user experience and ensuring code quality through testing and improved CI/CD systemsImproved the DX of the platform creating multiple scripts and automations for platform upgrades tests and new developers onboard.		

Full Stack Developer	Anova IT Consulting	2019 - 2021
Alcalá de Henares, Spain		
<ul style="list-style-type: none"> Developed multiple Content Management System (CMS), Learning Management System (LMS) and study platforms with Moodle, EDX, Wordpress, Drupal and Joomla. Designed, implemented and developed an IoT platform to control CO₂ in public spaces. 		

AI Researcher	Narrativa	2017 - 2019
Alcalá de Henares, Spain		
<ul style="list-style-type: none"> Built data-to-text models for automated sports journalism, turning structured football match data into readable summaries. Developed automation scripts to manage the content generation pipeline 		

Education and Certifications

• M.Sc. Agile Software Development for the Web , University of Alcalá, Spain.	2022–2024
• B.Sc. Information Systems Engineering , University of Alcalá, Spain.	2017–2021

Publications

Evaluating V2X Communications in the CARLA Simulator for a Collaborative Planning Use Case

- Developed a V2X communication framework in the CARLA simulator using ROS and MQTT, enabling collaborative route planning with real-time recalculations. Evaluated A* and Dijkstra algorithms, demonstrating optimal performance across different map sizes to enhance autonomous driving and traffic management.

Technologies and Languages

- Languages: NodeJS, JavaScript, TypeScript, Golang, Python, Dart, Java
- Technologies: PostgreSQL, MySQL, MongoDB, Redis, GCP, K8S, Git, Express, NestJS
- Other: Data structures and algorithms, mentoring, product perspective