

Luis Felipe Llamas Luaces

Senior Backend Specialist

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Backend engineer, from robotics research to production data and LLM systems.

I started in educational robotics: my final degree project became my first job at a university spin-off, and then a PhD position in a research group. It was a multidisciplinary project, and it taught me to pick up new technologies quickly, from Android and iOS to computer vision and simulators.

EXPERIENCE

Feb 2026 – Present	Redegal · Senior Backend Specialist and AI Governance Commission member Same backend work, plus management duties in Product / R&D. Representative of the product department on the AI Governance Commission since it was set up.
Jun 2022 – Mar 2026	Redegal · Backend Engineer Main backend engineer of Redegal's data-driven marketing and analytics tools Binnacle and Boostic, and of the backend of the ATaquilla CMS. – Design and build of Binnacle and Boostic from scratch to production in one year, followed by new features: dynamic dashboard generation from the backend and LLM integration for data analysis and report generation. – The tools are used by Redegal's own marketing team and by external clients. – Mentoring and code review for new backend team members. – Coordination with the Data Science and Frontend teams through a shared documentation system and the protocols to use it. – Design and build of the ATaquilla CMS backend from scratch to production within the agreed timeframe, together with the client's software, marketing and operations teams.
Nov 2021 – May 2022	University of A Coruña · Pre-doctoral Researcher Perception systems in cognitive robotics, as part of doctoral studies.
Nov 2020 – Nov 2021	UDC – Navantia Joint Research Unit · Researcher Prototype that uses genetic algorithms to redesign the closing pipes of ships under construction. – Design and implementation of a prototype to improve the fitting and adjustment of pipes in ships under construction. – Genetic algorithms (Python) to redesign the pipe layouts that, because of real-world assembly deviations, did not meet fitting tolerances. – Work with the pipe workshop and metrology lab engineers; combined with 3D scanners, the prototype shortened measurement and design times and prevented errors.
Jul 2020 – Nov 2020	CITIC Research Centre, University of A Coruña · Researcher New machine vision techniques for the Robobo educational robotics platform.
Apr 2019 – Jul 2020	UDC – Navantia Joint Research Unit · Researcher Pipe fitting research for the Navantia shipyard: analysis of solutions to measure assembly deviations.
Jan 2019 – Apr 2019	Integrated Group for Engineering Research (GII) · Software Engineer Robobo educational robotics platform: new interaction modules and the iOS port.
Oct 2016 – Dec 2018	Mytech Ingenieria Aplicada · Software Engineer Sensing and actuation framework of the Robobo educational robotics platform, continuing the final degree project.

PROJECTS

Main backend engineer	Binnacle / Boostic Backend of Redegal's data-driven marketing and analytics tools. Python, Flask, Prompt engineering, PostgreSQL, ClickHouse, Docker, Auth0, LangChain, LangGraph, SQL, Pandas
Main backend engineer	ATaquilla Custom CMS for ATaquilla's marketing team to edit public event content. Python, Flask, Kubernetes, PostgreSQL, Keycloak, Alembic
Researcher	Pipe Fitting Prototype using genetic algorithms to redesign closing pipes so they fit as-built ship modules at Navantia. Python, Genetic algorithms, wxPython, NumPy, PyGAD
Software engineer and researcher	Robobo Platform Software framework of a smartphone-based educational robotics platform. Android, iOS, OpenCV, Python, JavaScript, Unity

PUBLICATIONS

2019	Artificial Intelligence Teaching Through Embedded Systems: A Smartphone-Based Robot Approach Springer
2019	Adapting computer vision algorithms to smartphone-based robot for education IEEE
2017	The Robobo Project: Bringing Educational Robotics Closer to Real-World Applications Springer

EDUCATION

Nov 2019 – Jun 2022	PhD, Cognitive Robotics (discontinued) UDC
Sep 2016 – Jul 2018	Master's Degree, Bioinformatics for Health Sciences (Neuroscience focus) UDC
Sep 2011 – Aug 2016	Engineering Degree, Computer Engineering (specialized in computer science) UDC

VOLUNTEERING

Feb 2020 – Sep 2023	Bricolabs · President
Apr 2013 – Present	Bricolabs · Member

SKILLS

Python Development	Flask, numpy, pandas, Poetry, marshmallow, pydantic
Software Engineering	Modular design, REST API design, Testing (pytest)
DB Management	PostgreSQL, ClickHouse, ORM, SQLAlchemy, SQL, Alembic
DevOps	git, Docker, Docker Compose, Kubernetes, Elastic, Linux, Redis, make, bash
Mobile Development	Android, iOS
AI and LLMs	LangChain, LangGraph, MCP, Claude, Prompt engineering
Languages	Spanish, English

INTERESTS

Music	Guitar, Bass, Piano, Drums
Electronics	Robotics, IoT, Ham radio
Crafts	Woodworking, Metalworking, Jewellery
Arts	Drawing, Painting
Sports	Mountain biking