

# Alexandre Borrazás Mancebo

## Full Stack Engineer

Computer Engineering student at UDC focused on backend and full stack development, with a strong foundation in systems and software architecture. I build scalable APIs and real-time systems, combining low-level understanding with high-level product development. Experienced in implementing real-time communication using WebSockets, declarative infrastructure with NixOS and end-to-end solutions from backend to deployment. I enjoy shipping robust features while keeping systems maintainable, reproducible and efficient.



✉ alexborrazasm@gmail.com • 📍 A Coruña, Spain • 👤 March 2, 1999 • 🌐 LinkedIn • 🐙 GitHub

## EDUCATION

### Degree in Computer Engineering

2023 — Present

#### Universidade da Coruña (UDC)

Specializing in Computer Engineering. Focused on understanding the full stack of computing, from low-level hardware to high-level software architectures.

C/C++ Java MySQL Python Javascript Flutter Django Linux HTML5 CSS3 ARM

## HONORS & AWARDS

### First Prize Winner - HackUDC 2026

2026

#### Denodo Track

Won the first prize in the Denodo challenge, demonstrating problem-solving skills, rapid prototyping and efficient data handling under pressure.

React Tailwind Python FastAPI Docker Grafana Sqlite Data Visualization Hackathon

## PROJECTS

### ESP32 Telemetry & Robotics API

2026 — Present

#### Personal Project / BricoLabs

Architected a hardware-agnostic HTTP/WebSocket API for ESP32 robots. Developed a transport layer abstraction (WiFi/Ethernet) to decouple connectivity from logic. Features real-time data streaming and remote configuration for robotics competitions (OSHWDem).

ESP32 C++ Arduino API REST WebSockets IoT Robotics API Design Git

### Declarative Infrastructure & Home Lab

2024 — Present

#### Self-hosted NixOS Ecosystem

Engineered a fully reproducible infrastructure using NixOS (Flakes) and Docker across VPS and on-premise nodes. Implemented declarative system configs, automated backups, and network segmentation with OpenWrt (VLANs). Focused on Infrastructure as Code (IaC) and maintaining services for the BricoLabs community.

NixOS Docker Proxmox GNU/Linux IaC Debian Restic Wireguard OpenWrt Git

## COMMUNITIES & VOLUNTEERING

### Wiki.js

OPEN SOURCE CONTRIBUTOR

2026 — Present

Contributed to the localization of the platform by translating documentation and core interface elements into Galician.

### Universidade da Coruña (UDC)

PEER MENTOR

2025 — Present

Providing academic orientation to first-year Computer Science students. Helping them navigate the curriculum, tooling, and the university's ecosystem.

### GPUL

MEMBER

2023 — Present

Participating in the Free Software Users Group at Universidade da Coruña, promoting FOSS culture through technical workshops and seminars.

### OSHWDem Coruña

ORGANIZER & JUDGE

2023 — Present

Core organizer for one of Spain's largest Open Hardware events (1,800+ attendees). Responsible for competition judging and developing technical infrastructure/services for the tournament stages.

### BricoLabs

ACTIVE MEMBER

2022 — Present

Proactive collaboration on OSHW projects. Developed numerous experiments in robotics, electronics and IoT.

## LANGUAGES

Spanish  
NATIVE



Galician  
NATIVE



English  
TECHNICAL B1

