



Isaac Balam Rodriguez Arellano

SOFTWARE ENGINEERING MASTER'S STUDENT |
BACKEND DEVELOPER | CYBERSECURITY & CLOUD-NATIVE PROJECTS



Paris, france



+33 7 75 72 30 77



isaac@balamrodriguez.com

ABOUT ME

Software Engineering Master's student at Sorbonne Université focused on backend development, REST APIs, databases, cloud-native tooling and cybersecurity-oriented applications. I build practical systems with Python, FastAPI, PostgreSQL, Docker and Linux, and I am seeking a 4–6 month internship in backend, cloud, networking or cybersecurity-oriented engineering.

SKILLS

Backend & APIs:

Python, FastAPI, REST APIs, API authentication

Databases:

PostgreSQL, SQLAlchemy, MySQL, MongoDB

Cloud / DevOps:

Docker, GitHub Actions, Render, Linux, Git

Programming:

Python, Java, C++, Bash, HTML, CSS

Networking & Security:

TCP/IP, firewalls, VPNs, troubleshooting, security event processing

LANGUAGES

Spanish - Native

English - C1

French - B1

WORK EXPERIENCE

Ziff Davis (VIPRE antivirus)

Jul 2023 - Jul 2024

Operadora de servicios integrales

Sep 2022 - Jul 2023

Continental automotive

Feb 2022 - Jul 2022

Teleperformance

May 2015 - May 2019

Technical support engineer

- Provided B2B technical support for endpoint security and networking-related issues, managing 15–20 daily cases.
- Diagnosed and resolved firewall, VPN, connectivity and performance issues for business customers.
- Performed technical troubleshooting and root-cause analysis across endpoint protection and network environments.

IT Manager

- Managed local internet and telephony infrastructure, ensuring service continuity and system reliability.
- Maintained IT equipment and internal systems for daily business operations.
- Developed and maintained the company's internal website.

Intern

- Automated internal reporting workflows using Excel macros, reducing manual work by 30%.
- Developed a Java-based application to help determine optimal EV charging station locations.

Technical support agent

- Delivered technical support for internet, TV and phone services in the US market.
- Resolved connectivity and service issues across multiple communication channels while maintaining high customer satisfaction.

EDUCATION

Sorbonne université

Paris 2024 - present

Universidad de

Guadalajara

Guadalajara 2017 - 2022

Master's program in Networking (DIGIT)

- First year project: Collaborated with a university research team focused on developing an enhanced route tracing technique to identify routing paths and delays across autonomous systems.

Bachelor's degree in computer science

- Final project: Modular web application with AWS Lex chatbot and MongoDB for image storage.

FEATURED PROJECT

NetSentinel Lab

Cloud-native security event correlation platform built with FastAPI, PostgreSQL, Docker and a live investigation dashboard.

- Built ingestion endpoints for generic, Falco-style and Suricata-style security events.
- Implemented configurable incident correlation, severity escalation, reopening logic and attack-chain workflows.
- Designed investigation endpoints for incident detail, timeline, enrichment, CSV export and JSON export.
- Added API key authentication, Swagger authorization support, automated tests with pytest and CI with GitHub Actions.
- Deployed the platform publicly on Render with PostgreSQL integration.

Tech: Python, FastAPI, PostgreSQL, SQLAlchemy, Docker, GitHub Actions, Render

LINKS

GitHub: <https://github.com/balam0o>

Portfolio: <https://balamrodriguez.com/>

LinkedIn: <https://www.linkedin.com/in/isaac-balam-rodriguez-arellano-a4658421a/>