

# Isaac Alejandro Blanco Amador

✉ alex.zgz@live.com ☎ +573146874941 📍 Barranquilla, Colombia 🌐 LinkedIn 🐙 GitHub

🔗 Portfolio ● Personal blog

## WORK EXPERIENCE

### Middle software engineer

Auvik 🔗

01/2025 – present | Barranquilla, Colombia

- Collaborating with a 5-person team to develop a background desktop application for metrics collection (including inventory, jitter, latency, etc.) and inter-agent communication across servers and workstations. The system coordinates with multiple other on-device agents using technologies like ZeroMQ.
- Primarily working with Go and Python within a microservices-based architecture.
- Winner of an internal AI-focused hackathon as part of a 3-person team, recognized for the innovative use of machine learning to solve a real-world infrastructure issue.

### Software engineer

Wazoku 🔗

05/2023 – 01/2025 | Barranquilla, Colombia

- Collaborated with a team of 5 to develop an analytics service that enhances client insights with Python, Angular and Sisense.
- Improved performance by analyzing and optimizing the current implementation, achieving a reduction of approximately 1 second in response time.
- Decoupled the frontend and backend systems, resulting in greater modularity, easier testing, and improved maintainability.
- Enhanced the knowledge base of the codebase to facilitate onboarding of new developers, including up-to-date documentation, architectural diagrams and pair programming sessions.

### Junior Fullstack Developer

Eventos Y Logísticas Estratégica S A S

09/2022 – 05/2023 | Barranquilla, Colombia

- Built a web application in React for ingesting financial data (e.g., revenue, accounts payable, sales) saving 1 day of work a week
- Built a dashboard in Google Analytics to receive the KPIs (e.g. daily visits, location, re-entry) of the website

### Data Science For All

03/2022 – 07/2022 | Barranquilla, Colombia

- Contributed together with a 5-member interdisciplinary group to the creation of a technological solution for the Colombian Civil Aeronautics.
- Lead the creation of a machine learning model on Scikit Learn over 100.000 rows dataset and 5 data entry points.
- Created a dashboard for air flow monitoring based on Streamlit and PowerBi technologies over 100.000 rows dataset.

## PROJECTS

### BookPal 🔗

Undergraduate Final project

06/2023 – 12/2023

- Collaborated on developing a self-service book loaning system using NFC technology for the library at Universidad del Norte.
- Implemented a REST API with NestJS to enable communication between the integrated library system and our mobile application, utilizing the Adapter pattern, approximately reduce 2 seconds by employing dynamic QR code generation for the loan.

### Open Source Contributions

#### Microsoft Terminal

- **Bug Fixes:** Addressed minor UI and business logic issues, enhancing application stability 🔗 and user experience 🔗. Contributed to codebase improvements using C++.

#### DBT

- **Issue Resolution:** Assisted in improving the compilation errors messages during model testing 🔗, contributing to smoother developer experience. Worked with Python and Jinja.

## SKILLS

### Programming Languages

Javascript, Typescript, Python, Java, Go

### Libraries

React, Pandas, SocketIO, DRF

### Technologies

- **Databases:** MySQL, MariaDB, MongoDB, PostgreSQL
- **Cloud & DevOps:** AWS, Git, Firebase
- **Testing:** Pytest, ngMocks, Playwright
- **Visualization:** Power BI, Streamlit

### Frameworks

Django, Scikit Learn, GraphQL Express, Streamlit, Angular, NestJS


## LANGUAGES

**Spanish** — Native | **English** — Professional Working Proficiency (B2-C1)

## EDUCATION

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### **Master's Degree in Software Engineering.**

*Universidad de los Andes* 

08/2024 – present | Barranquilla, Colombia

Pursuing a Master's Degree in Software Engineering with a focus on CI/CD, Cloud Computing, Data-Intensive Applications, System Design, Agile Methodologies, and Emerging Technologies.

### **B.E Computer Science**

*Universidad del Norte*

2019 – 2023 | Barranquilla, Colombia

- Group honorable mention in the creation of a Java simulator of Bungee Jumping for the ExpoFisica of the Universidad del Norte
- Distinguished Student

## CERTIFICATES

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### **Data Science For All Program**

360-hour course conducted by Correlation One, for the training of data scientists focused on EDA's, API creation, cloud infrastructure, artificial intelligence, databases, visualization and business intelligence.

### **Diploma in Data Science**

160-hour diploma course conducted by ESAP, where a deepening in Data Science topics such as: Databases, Algorithmics and topics of visualization and data analysis were carried out.