

Samuel Ortiz Ospina

Software Engineer

Contact

Bogota D.C.
samuortiz1305@gmail.com

+57 3054324725
[\[credly.com\]](https://www.credly.com)

Profile

I am Samuel Ortiz Ospina, a fifth-semester Software Engineering student at Universidad Manuela Beltrán in Bogotá, Colombia, with a professional focus on solving complex problems, optimizing systems, and collaborating in team environments. My passion for technology is fueled by practical experience and a commitment to continuous learning, which has enabled me to cultivate:

Strategic decision-making under pressure: I have developed the ability to make precise decisions in dynamic settings, a skill I directly apply to troubleshooting technical issues and prioritizing critical tasks.

Systems optimization and resource management: My approach to designing efficient and well-structured solutions is evident in my work with software architectures, deployment pipelines, and code optimization, ensuring optimal performance.

Advanced teamwork and communication: My experience collaborating on academic and professional projects has strengthened my ability to participate effectively in agile sprints, daily stand-ups, and cross-functional teams.

My focus on refining and debugging solutions, whether in development projects or data analysis, allows me to create scalable and maintainable code.

Resilience and adaptability in dynamic environments: I maintain composure in the face of changing challenges, learn from setbacks, and adjust my strategies—a valuable asset when dealing with tight deadlines or evolving requirements.

Passion for learning and precision: Driven by the resolution of complex problems and the design of efficient systems, I strive to deliver flawless solutions, whether developing APIs with FastAPI or integrating databases like MongoDB.

Combining these strengths with a proactive attitude and a constant desire to master new technologies, I am well-prepared to contribute effectively to collaborative, results-driven development teams.

Experience

September 2024
– November
2024

Football Betting Web Platform

Independently designed and developed a football betting web platform using Java Servlets for backend logic, MySQL for data management, and Tomcat as the application server.

Modeled and optimized the MySQL database to manage matches, teams, users, bets, and results efficiently.

Implemented full CRUD operations, user authentication, and role-based access control (user and admin).

Integrated an intelligent chatbot to answer FAQs, guide users, and enhance the overall betting experience.

Deployed the application on a Tomcat server, handling WAR packaging, environment configuration, and ensuring stable production performance.

Conducted unit testing and manual QA to ensure reliability, security, and performance under real-world conditions.

June 2023 –
December 2023

Administrative Assistant – Thura Distribuciones SAS

Developed a web-based inventory management system to address issues caused by disorganized data and lack of control over inventory processes.

Organized and digitized inventory records, enabling better data consistency and accessibility.

Resulted in a significant improvement in inventory tracking and decision-making, reducing time spent on manual processes and minimizing errors.

August 2023 –
December 2023

Game Developer – Universidad Manuela Beltrán

Created a 2D platformer game using Unity and C#.

Designed gameplay mechanics, menus, and save/load systems.

Led a small team and delivered a playable demo.

March 2025 –
June 2025

AR in Unity and JavaScript – Universidad Manuela Beltrán

Developed an augmented reality application using Unity and JavaScript.

Integrated Three.js for 3D model rendering and AR tracking.

Implemented interactive AR features, such as object placement and user interactions.

Tested and optimized the AR experience for performance and mobile deployment.

February 2025 –
June 2025

Built a full-stack web application using NestJS (backend) and MongoDB (database) to catalog and monitor animal sightings across Colombia.

Integrated Google Vision AI to automatically identify animal species from images and associate them with geolocation data.

Developed an intuitive React frontend with interactive maps, species galleries, and responsive components for researchers and environmental groups.

Designed and secured RESTful APIs, ensuring reliable data flow and optimal performance.

The platform supports biodiversity conservation efforts by providing real-time, organized data on wildlife distribution.

March 2025 –
June 2025

Blocks Sakura

Designed and developed a modern, sakura-themed technology blog and portfolio site using HTML, CSS, and JavaScript, with integration of Three.js for animated 3D visuals and interactive effects.

Implemented semantic SEO optimizations with structured data (JSON-LD), Open Graph, and Twitter Card metadata for enhanced visibility in search engines and social sharing.

Developed a modular, scalable layout using semantic HTML and CSS layers, including dark-mode-aware tokens, animated portfolio entries, and responsive components.

Enhanced user experience with intersection-based animations, lazy loading of assets, and mobile-first responsive design.

Included sections for technology news in Colombia, a curated product catalog, and a dynamic portfolio, supporting future integration of external articles and APIs.

January 2025 –
March 2025

Developed a photo album management platform using Django as the backend framework, allowing users to upload, organize, and view images by albums.

Implemented user authentication, album creation, image upload with metadata, and secure media handling.

Designed a clean, responsive interface with Django templates and Bootstrap, focusing on usability and mobile accessibility.

Created models for albums, photos, and categories, with admin interface customization for easy content management.

Used Django's ORM for efficient database operations and applied proper storage practices for user-uploaded media files.

Education

2022 - Present

Software Engineering – Universidad Manuela Beltrán

Bachelor of Science in Paralegal Studies
Certified Registered Paralegal

2023

Google & Coursera

Completed 10 courses in data analytics with real-world case studies

Covered data preparation, cleaning, visualization, R programming, and decision-based question formulation

November 20,
2023

Python Essentials 1

Issued by Cisco

May 21, 2025

CCNA: Switching, Routing, and Wireless Essentials

Issued by Cisco

**Key skills and
characteristics**

Teamwork & Communication

- Adaptability
- Attention to detail

Decision-Making Under Pressure

- Leadership under pressure
- Fast learner

Problem Solving & Systems Thinking

- Resilience
- Precision

Technical Expertise

- Python (Django, FastAPI)
- Java
- JavaScript
- html

Databases

- SQL (mysql)
- NoSQL (MongoDB)

Tools

- Git
- Docker
- Tableau (Analytical)