

Juan Sebastián Ospina Losada

Software Engineer

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Summary

Software Engineer with **2+ years** of experience building **scalable web applications** using **Python, JavaScript, TypeScript, React, and Angular**. Proven track record in designing **full-stack solutions**, optimizing **API performance**, and integrating **real-time features**. Adept at **microservices architecture, cloud computing, and CI/CD pipelines**. Passionate about **clean code, test-driven development (TDD)**, and **performance optimization**.

Technical Skills

- **Languages:** Python (Intermediate), JavaScript (Intermediate), TypeScript
 - **Frontend:** React, Angular, HTML, CSS, Tailwind CSS
 - **Backend:** Django, NestJS, Node.js, REST APIs, GraphQL
 - **Databases:** PostgreSQL, MongoDB, Redis
 - **Cloud/DevOps:** AWS, Firebase, Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins)
 - **Tools & Methodologies:** Git, WebSockets, Agile (SCRUM/Kanban), TDD (Jest, Cypress)
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Professional Experience

Unidad Nacional de Protección

Software Engineer | Sep 2024 – Present

- Designed and implemented a **secure authentication system** for internal and external users using **React and Django**, reducing unauthorized access incidents by **35%** and improving login efficiency by **50%**.
- Developed a **real-time voting system** with WebSocket integration, reducing latency to **<200ms** and enabling seamless participation for **500+ concurrent users**.
- Collaborated with cross-functional teams to ensure **compliance with government security standards**, reducing audit findings by **30%**.

Ospixel

Software Engineer | Apr 2024 – Aug 2024

- Designed and implemented a **high-performance e-commerce platform** using **Angular (frontend) and NestJS (backend)**, reducing page load time by **30%**.

- Optimized API performance by implementing **caching strategies (Redis) and query optimizations**, achieving **95% uptime and a 40% reduction in response times** during peak traffic.
- Developed and integrated **role-based access control (RBAC)**, enhancing system security and user management.

Universidad Surcolombiana

Software Developer | Jul 2023 – Apr 2024

- Led the development of an **accounts payable module** in Angular, automating financial operations and reducing manual processing time by **40%** for **10k+ users**.
 - Contributed to **code reviews and best practices adoption**, leading to a **20% decrease in bug reports**.
 - Mentored **3 junior developers**, improving team efficiency and code quality.
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Key Projects

Real-Time Voting System

- Engineered a WebSocket-driven **real-time voting platform**, achieving latency of **<200ms** and supporting **500+ concurrent users**.
- **Tech stack:** React, Django, PostgreSQL, Redis, Docker.

E-Commerce Platform

- Developed a **full-stack e-commerce solution** with **role-based access control (RBAC)**, secure payments, and performance optimizations.
 - **Tech stack:** Angular, NestJS, MongoDB, Redis, AWS.
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Education

Bachelor's in Software Engineering

Universidad Surcolombiana | 2018 – 2023

Languages

- **Spanish:** Native
 - **English:** Intermediate (B1/B2)
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