# **OSCAR SANTIAGO VÉLEZ MUÑOZ**

#### Senior Software Engineer | Backend & Full-Stack Development

Cali, Valle del Cauca, Colombia

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#### **Profile**

Results-driven Senior Software Engineer with 4+ years of experience specializing in backend development (Node.js, Python), full-stack solutions (React), and cloud architecture. Proven expertise in migrating monolithic systems to scalable microservices, developing robust SDKs, and engineering complex data extraction solutions. An accomplished technical leader and university-level educator with a track record of mentoring high-performing teams and driving the adoption of best practices in Agile and DevOps environments. Currently specializing in web scraping, Python, and the Cloudflare ecosystem.

#### **Professional Experience**

Software Architect (Freelance) | ClientFy | Remote Jan 2024 - Present

- Led the successful migration of a monolithic enterprise application to a scalable and optimized microservices architecture, improving system performance and flexibility.
- Implemented a robust CI/CD pipeline and DevOps culture, significantly reducing deployment times and enhancing value delivery to end-users.
- Architected and developed backend services using Node.js and NestJS, ensuring high availability and performance for multiple products.

Frontend Web Developer | Polux Apps | Bogotá, Colombia Jun 2021 - Present

- Developed and maintained responsive, high-performance user interfaces for enterprise web applications using Vue.js and modern frontend frameworks.
- Integrated frontend components with backend services via REST APIs, ensuring seamless data flow and scalability.
- Deployed, managed, and monitored services on Amazon Web Services (AWS), optimizing for cost and performance.

University Professor | Universidad del Valle | Cali, Colombia Jan 2024 - Present

- Instructed over 1,000 students in foundational and advanced courses on programming, web development, and software architecture.
- Designed and implemented academic curricula focused on emerging

technologies, including AI, cloud computing, and modern development frameworks.

 Mentored students on complex software development projects, fostering technical skills and best practices.

Educational Supervisor & Lead Developer | Universidad ICESI | Villa Rica, Colombia Jan 2023 – Dec 2023

- Spearheaded the complete lifecycle development of EdutekaLab, an educational platform featuring Al-powered tools for teachers, built with React, Node.js, and MySQL.
- Led educational initiatives and supervised a key project aimed at improving academic performance through technology.

#### **Technical Skills**

- Backend: Python, Node.js, NestJS, Express.js, Prisma ORM
- Frontend: React, Vue.js, Quasar, JavaScript, HTML5, CSS3, Bootstrap
- Data & Databases: PostgreSQL, MySQL, MongoDB, Redis
- DevOps & Cloud: AWS, Cloudflare, Docker, NGINX, PM2, CI/CD, Ubuntu
- Web Scraping: Proficient in data extraction techniques and tools.
- Project Management: Agile, Scrum, DevOps Methodologies
- Other: Git, GitHub, REST APIs, Online Payments Integration

## **Featured Projects**

## **Enterprise Architectural Migration | ClientFy**

- Objective: Overhauled a legacy monolithic system to improve scalability and performance.
- Execution: Led the transition to a microservices architecture using Node.js for backend services and implemented a full DevOps pipeline.
- Technologies: Node.js, NestJS, Docker, AWS, CI/CD.

### **EdutekaLab | AI-Powered Educational Platform**

- Objective: Develop a comprehensive SaaS platform for educators at Universidad ICESI.
- **Execution:** Built the platform from the ground up, implementing features for lesson planning, rubric generation, and gamification using AI.
- Technologies: React, Node.js, MySQL, AWS.

# Légein Magazine | Academic Editorial Platform

- Objective: Create and manage a digital platform for academic publications.
- Execution: Directed the editorial process and developed the web platform,

managing content and user workflows.

• Technologies: Content Management Systems, Web Development fundamentals.

## **Education**

- Specialization in Information Technologies | Google Creative Campus & Unicafam | 2022
- Technology in Software Analysis and Development (Incomplete) | SENA | 2021 2023
- Professional in Philosophy | Universidad del Valle | 2018 2022
- Bachelor's in Social Sciences & Political Science | Universidad ICESI | 2016 2021