

Juan David Buitrago Lozano

SOFTWARE ENGINEER | FULL-STACK DEVELOPER

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Tunja, Colombia

PROFESSIONAL PROFILE

Systems Engineer and AWS Certified Cloud Practitioner specialized in designing, building, and optimizing scalable applications across the entire software development lifecycle. Proficient in modern web technologies (React, Node.js) and cloud infrastructure, with a strong focus on clean code and system architecture. Proven track record of delivering measurable business impact, including a 98% reduction in processing times through intelligent automation. Passionate about creating efficient, user-centric, and resilient digital solutions for complex industries.

PROFESSIONAL EXPERIENCE

Grupo Prevenso LTDA | Software Engineer (Full-Stack & Automation Focus) | June 2025 – October 2025

Led user research and data analysis to conceptualize high-fidelity digital solutions, ensuring accuracy and logical flow in automated systems.

- System Architecture & Automation:** Designed and built robust cross-platform solutions and RESTful APIs, ensuring 100% data integrity and secure exchange between client interfaces and servers.
- Performance Optimization:** Achieved a 98% gain in operational efficiency by transforming manual 15-minute tasks into sub-second automated workflows using optimized server-side logic.
- Cloud & DevOps:** Managed the complete application lifecycle using AWS and Docker, streamlining deployment pipelines and ensuring environment consistency.
- Code Quality:** Integrated static analysis tools (SonarQube) to mitigate vulnerabilities and maintain an 'A' rating in code maintainability.

Confecoop Boyacá | Full-Stack Web Developer | January 2025 – February 2025

Responsible for the lifecycle and maintenance of the institutional web platform.

- End-to-End Development:** Responsible for the lifecycle and maintenance of the institutional web platform, delivering high-fidelity interfaces and reliable backend services.
- System Integration:** Developed complete CRUD logic for enterprise inventory management, ensuring fluid communication between frontend clients and backend APIs.
- Data Modeling:** Engineered complex database schemas to handle synchronized stock operations and institutional data.

OUTSTANDING PROJECTS

Enterprise Inventory Management System

- Developed a full-stack enterprise solution implementing complex relational logic in

- PostgreSQL to ensure absolute data integrity for critical business and stock operations.
- Built full CRUD logic for stock control and automated reporting, focusing on rigorous business rules and audit trails.

Payment Gateway & Subscription Framework

- Engineered a validation framework to secure Checkout and Registration modules, optimizing the software lifecycle and preventing production vulnerabilities.

CERTIFICATIONS AND AWARDS

- **AWS Cloud Quest: Cloud Practitioner** | Amazon Web Services (AWS) | 2026
- **Scrum Fundamentals Certified (SFC™)** | SCRUMstudy | 2026
- **Kanban Essentials with AI Certified** | SCRUMstudy | 2026
- **Business Analysis Fundamentals with AI Certified** | SCRUMstudy | 2026
- **Claude Code in Action** | Anthropic | 2026

TECHNICAL SKILLS

- **Frontend:** React.js, JavaScript (ES6+), TypeScript, HTML/CSS, Tailwind CSS. *(Añadido para generalizar)*
- **Backend & APIs:** Node.js (Express/NestJS), RESTful API Design, Java, Authentication & Security (OWASP).
- **Cloud & Infrastructure:** AWS Certified, Docker, Serverless Architecture, CI/CD Pipelines.
- **Databases:** PostgreSQL, MySQL, Complex Relational Logic, Query Optimization.
- **Quality & Methodologies:** Scrum, Kanban, SonarQube, Clean Code, UML.

LANGUAGES

- **Spanish:** Native.
- **English:** Intermediate (B2) - Capable of reading technical documentation and communicating in enterprise settings.

EDUCATION

Universidad Santo Tomás | Tunja, Colombia **Bachelor of Engineering in Systems Engineering** | **April 2026**

SKILLS

- Resolving complex technical problems under pressure.
- Adaptability and quick learning of new technologies.
- Effective communication with non-technical stakeholders.
- Time management and independent work.