

## **HERNAN YESSID MURCIA SALINAS**

Systems and Computer Engineer | Full Stack Developer | Network, DevOps & Cloud | IT Support  
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**Web Portfolio:** <https://hymurcia.github.io/>

### **Profile**

I am a Systems Engineer and Full Stack Developer with experience in software development, networking, infrastructure, technical support, and digital operations. I manage both the development stack (frontend-backend) and LAN/WAN networks, radio links, SQL/NoSQL databases, and cloud environments.

I am characterized by my capacity to solve problems, provide efficient support, develop functional solutions, and maintain stable and secure systems. I combine technical skills with an analytical and adaptable approach, focused on delivering reliable, quality results in IT environments.

### **Education**

#### **Systems and Computer Engineering**

University of Cundinamarca | Facatativá, Colombia  
June 2021 – November 2025

### **Certifications**

#### **Fundamentals of Professional Networking**

LinkedIn Learning | November 2024  
Endorsed by PMI® Registered Education Provider

#### **Course in Communication in English**

National Learning Service (SENA) | Bogota D.C., Colombia  
November 2017 – December 2017

### **Professional Experience**

#### **Junior Developer | MULIEVA S.A.S.**

Facatativá, Colombia | Jun 2024 – May 2025

- Participated in the development of web applications using frontend and backend technologies, ensuring functionality, performance, and code maintenance.
- Implemented APIs in Node.js/Express and functionalities in Python/Flask, integrating JWT authentication, file handling with Multer, and document generation with PDFKit26.
- Worked with SQL and NoSQL databases (PostgreSQL, MongoDB), creating queries, triggers, and SQL functions.
- Collaborated on interface design with React, React Router, and Tailwind CSS, integrating HTTP calls with Axios and interactive components.

- Participated in version control processes with Git, testing in Postman, Docker containers, and basic CI/CD flows.
- Supported architectural improvements, technical documentation, and development best practices within agile methodologies (Scrum).

### **Daviplata Manager | Nases EST**

**Facatativá, Colombia | Dec 2024 – Feb 2025**

- Assisted users with activation, validation, and usage processes for the Daviplata platform (CRM).
- Executed technical support related to access, authentication, app failures, and digital processes.
- Optimized banking flow processes and digital processes used by companies for payroll, severance pay, and compensation.
- Managed incidents and ensured an agile and secure user experience.

### **Network & Communications Technician | IpRed Ltda**

**Simijaca, Colombia | Jun 2021 – Jun 2023**

- Installed, configured, and maintained wireless and wired networks.
- Configured radio links and telecommunication equipment (Mikrotik, Cisco, Cambium Networks, Ligo Wave, Deliberant, Tp-Link).
- Diagnosed and resolved network failures in rural areas.
- Provided technical support to users, documented processes, and performed connectivity testing.

## **Key Projects**

### **BIM Locative Maintenance Platform (Universidad de Cundinamarca)**

- Developed a complete web platform (MERN-stack: Node.js/Express, React, PostgreSQL, Socket.IO) for BIM locative management, integrating incident reports, maintenance (preventive/predictive), and inventory.
- Optimized infrastructure management by implementing user roles (Admin, Area Manager, Operator, Academic Staff) and real-time notifications, enhancing maintenance efficiency at the university.

### **Indoor Wifi - Wi-Fi Navigation and Localization (UdeC)**

- Created an Android application for indoor localization using the Wi-Fi Fingerprinting technique and the k-Nearest Neighbors (k-NN) Machine Learning algorithm.
- Allows users robust mapping of locations and persistence of Wi-Fi fingerprint data (JSON), offering location predictions with a confidence feedback.

### **Genetic Algorithm Simulator - Area Optimization**

- Developed a backend in Python/Flask for running the Genetic Algorithm and a frontend in React/Vite for configuration and visualization of convergence and 2D distribution.
- Allowed optimization of element selection under spatial constraints.

### **Agro Trader - Wild Agraz E-commerce**

- Designed an e-commerce platform with product sections, portfolio, seller profiles, and a specialized calculator for fair trade of wild Agraz.

### **The Voice of Oblivion**

- Android app for Online Radio and Metadata, featuring technologies like AppCreator24, Webview, Streaming, and JSON data processing, available on Google Play.

### **Technical Skills**

- **Backend:** Java, C++, C#, .NET, ASP.NET, .NET Core, Node.js, Express.js, Python, Flask, PHP, JWT, bcrypt, Socket.IO, Multer, PDFKit, Nodemailer, Shell scripting, JSP, MERN Stack.
- **Frontend:** HTML, CSS, JavaScript, TypeScript, React, React Router, Angular, Bootstrap, React Bootstrap, Tailwind CSS, Axios, Recharts, React Big Calendar, React Toastify.
- **Databases:** SQL, NoSQL, PostgreSQL, MySQL, MariaDB, MongoDB, SQL Server, Oracle Database.
- **Cloud, DevOps & Services:** Git, GitHub, Docker, Postman, CI/CD, AWS, Azure, SAP, Cloud Architecture, Scrum, Agile Development.
- **Networking & Telecom:** Mikrotik, Cambium, LigoWave, Deliberant, TP-Link, Cisco, LAN/WAN Networks, Radio links, Signaling and wireless communications.
- **Mobile Development:** Android Studio, Kotlin, Java for Android, Permission Management, Native and Hybrid Mobile Applications.
- **Machine Learning & Data Analysis:** Wi-Fi Fingerprinting, k-NN (k-Nearest Neighbors), Euclidean Distance, WiFi Signal Processing (RSSI, BSSID), JSON Data Management, Predictive Failure Analysis, Genetic Algorithms (GA).
- **Software Engineering & Practices:** Software Architecture, Database Normalization and Design, BIM Modeling, Technical Documentation, Inventory and Stock Control, System Permission Management

### **Languages**

- Spanish: Native.
- English: Conversational.

### **Contact**

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