

Carlos David Ramírez Muñoz

Full-Stack Web Developer & Computer Engineering Student

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Full-Stack Web Developer with experience building web applications and over a year of freelance experience contributing to the training and alignment of advanced AI models. Experienced in reviewing AI-generated code for logic, security, and maintainability, and assessing interfaces against UI/UX, accessibility, and web standards. Technical skills include JavaScript/TypeScript, React, Node.js, and Python, with a growing focus on AI integration in applications and development workflows. Hands-on experience with an IoT road-safety prototype combining sensors and a trained neural network to detect critical cycling events

PROFESSIONAL EXPERIENCE

Software Engineer / AI Trainer | Alignerr | Remote

Nov 2025–Present

- Reviewed AI generated code, evaluating its logic, security, and maintainability in multiple languages like Python and JavaScript/TypeScript.
- Evaluated AI agents behavior, flagging and evaluating destructive actions, ungrounded statements and incorrect approaches, effectively helping on aligning AI behavior with human values.
- Trained AI agents to navigate full codebases, execute terminal tools, and automate end-to-end engineering tasks while adhering with human objectives and values.

Frontend Developer / AI Trainer | Outlier | Remote

May 2025–July 2025

- Systematically reviewed AI-generated frontend code (HTML, CSS, JavaScript, React) for both technical accuracy and completeness, identifying subtle defects and recommending improvements.
- Assessed user interfaces for alignment with core UI/UX and accessibility principles, guiding enhancements in AI understanding of contemporary design patterns.
- Delivered actionable, nuanced feedback to AI models, refining their grasp of web standards and modern frontend development practices.

Freelance Computer Technician | Freelance | Bogotá, Colombia

Jan 2021–May 2025

- Diagnosed and repaired diverse hardware faults in desktops, laptops, and peripheral devices for individual clients and small businesses.
- Provided remote and onsite technical support, maintaining consistent client satisfaction through prompt and effective issue resolution.

Junior Web Developer | JDR Asistenciamos | Bogotá, Colombia

Jan 2022–June 2022

- Developed a centralized inventory management web application, enhancing efficiency in the supplies process for public health hospitals in Bogotá.
- Collaborated closely with healthcare staff to understand operational requirements and translated needs into practical app features.

Frontend Web Developer | Centro Odontológico Mundo Oral | Bogotá, Colombia

Jan 2020–October 2020

- Designed and built a responsive web application to manage dental appointments and clinic service listings, replacing legacy paper-based workflows.
- Improved scheduling efficiency and user experience for both staff and patients by implementing intuitive navigation and clear information display.

EDUCATION

Universidad Nacional de Colombia | Bogotá, Colombia

Jun 2021 - Jun 2026

Ingeniería de Sistemas y Computación | Computing and Systems Engineering (*Grade 4.4*)

Servicio Nacional de Aprendizaje (SENA) | Bogotá, Colombia

Jan 2018 - Nov 2020

Técnico en Programación de Software | Software Programming Technician (*Excellence Award Received*)

PROJECTS

Ciclomart - Cycling Marketplace | [Github Frontend](#) | [Github Backend](#)

- Led full-stack development of a cycling marketplace with tailored features like seller ownership verification, advanced product filtering, shopping cart functionality, and MercadoPago payment integration.
- Integrated multiple cloud services like Cloudinary for media management and Amazon RDS for database infrastructure.

Courseclash - Gamified Classroom | [Github](#)

- Led full-stack development and software architecture for a microservices-based platform, separating authentication, activities, and duels into independent services.
- Implemented backend services with FastAPI and Go, a Next.js frontend, API Gateway patterns, RabbitMQ-based event-driven communication, and WebSockets for real-time gameplay.

CyclingSafety — AI, TinyML & IoT Road-Risk Detection | [Github](#) | [Academic Paper \(Spanish Version\)](#)

- Developed MLP and 1D-CNN models to classify critical cycling events from IMU sensor data with smartphone sensors and a cheap ESP32 based prototype.
- Deployed an INT8-quantized CNN on an ESP32 using TensorFlow Lite Micro, integrating MPU-6050 sensors, GPS geolocation, microSD logging, and MQTT-based event reporting to ThingsBoard.

SKILLS

Frontend Development
Backend Development
JavaScript / TypeScript
React.js
Software Architecture
Web Design
AI Training
Hardware Maintenance

Python
Docker and Containers
UI/UX Design
HTML/CSS
Technical Troubleshooting
Git and Version Control Systems
SQL Databases

Non-relational Databases
Software Maintenance
System Optimization
Responsive Design
Code Review
Technical Content Creation
IT Support

LANGUAGES

Spanish | **Native**

English | **Professional Working Proficiency (B2)**

Portuguese | **Beginner**

CERTIFICATES

AI-Driven Software Development Course | **Big School** / Oct 2026

AWS Academy Cloud Foundations | **Amazon Web Services** / Nov 2025

Full Stack Web Development | **University of Helsinki** / Mar 2025

Cisco Certified Network Associate (CCNA) | **Cisco Network Academy** / Oct 2024

Responsive Web Design | **FreeCodeCamp** / Feb 2023

JavaScript Algorithms and Data Structures | **FreeCodeCamp** / Jul 2021

Python Programming | **Mimo** / Jun 2021

B2 English Course | **Cafam Colombia** / Sep 2018