

CRISTIAN CAMILO PUENTES DIX

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PROFESSIONAL SUMMARY

BACKEND ENGINEER | FULL STACK DEVELOPER (Hybrid) **Systems and Computer Engineer** with professional experience developing SaaS platforms and web applications with complex business logic. Specialized in backend development using Python (Django, Django REST Framework), Node.js, Express.js, SQL databases, and cloud-based architectures.

Currently working as a Full Stack Developer building production applications with React, Next.js, TypeScript, Node.js, SQL, and AWS. Experienced in designing REST APIs, payment integrations, subscription systems, messaging workflows, transactional processes, and scalable backend solutions.

Passionate about software architecture, backend engineering, and building products that solve real-world business problems.

PROFESSIONAL EXPERIENCE

Geeks5g — Backend & Full Stack Developer

June 2025 - Present

- Contributed to multiple SaaS platforms operating under subscription-based business models.
- Fullstack development of applications with complex business logic, including payments, renewals, credits, and access control.
- Design and consumption of RESTful APIs within monorepo architectures and decoupled frontend/backend systems.
- Integration of messaging services and email marketing campaigns, including scheduled delivery, metrics, and analytics.
- Frontend development using Next.js, applying best practices such as Atomic Design and Domain-Driven Design (DDD) principles.
- Deployment and maintenance of applications in cloud environments: JavaScript, Next.js, Express.js, Prisma, MongoDB Atlas, SendGrid, Render, Git.

Universidad Tecnológica de Bolívar — IAI & Databases Researcher (Professional Internship)

January 2024 — July 2024

- Designed and prototyped an institutional chatbot using OpenAI APIs and automation tools.
- Implemented conversational AI solutions integrated with databases for real-time information queries.
- Developed logic based on function calling to transform user requests into dynamic SQL queries.
- Designed database models to optimize traceability and inventory control.
- Produced technical documentation covering the full research and development process: Python, SQL, OpenAI APIs, Postman, Power Automate.

PROJECTS

Personal Project - CHO Health 2026 - present

Designed and developed an end-to-end telemedicine platform supporting appointment scheduling, online payments, medical consultations, prescriptions, laboratory orders, invoicing, and pharmacy delivery workflows.

- Built a scheduling engine with validation of working hours, breaks, service duration, and appointment conflicts.
- Implemented three-layer booking protection using frontend validation, DRF serializer validation, and database constraints.
- Integrated Stripe and PayPal payment processing with idempotent webhook handling.
- Developed refund workflows with business-rule enforcement and audit tracking.
- Implemented atomic medical consultation workflows combining diagnosis, prescriptions, and laboratory orders.
- Generated invoices, prescriptions, and laboratory orders as PDF documents using ReportLab.
- Integrated SendGrid transactional emails, Cloudinary media storage, QR pickup codes, and multilingual support.
- Designed and implemented 25+ database models, 70+ REST API endpoints, and 40+ frontend routes.

Technologies: Django, Django REST Framework, PostgreSQL, Next.js, React, TypeScript, Stripe, PayPal, SendGrid, ReportLab, Cloudinary, Supabase, Render.

Personal Project – Stock Prediction Model 2025 - present

Predict stock prices with precision using advanced LSTM neural networks. Analysis of 10 years of historical data with artificial intelligence.

- Development of a neural network-based model for inventory forecasting.
- Data analysis and preprocessing for time series models: Python, Machine Learning.

Technologies: Django, Django REST Framework, PostgreSQL, Next.js, React, TypeScript, Jupyter Notebook, YahooFinance, SendGrid, Supabase, Render.

Bachelor's Thesis – AI-Based Talent Selection System (AI-JobMatch) February 2023 – November 2023

- Developed a matching system between candidates and job openings using cosine similarity and Euclidean distance metrics.
- Integrated OpenAI APIs for transcription and candidate information analysis.
- Optimized the model to improve accuracy and representativeness in recruitment processes: Python, Machine Learning, OpenAI APIs.

EDUCATION

Universidad Tecnológica de Bolívar	2019 - 2024
Bachelor's Degree in Systems and Computer Engineering	

TECHNICAL SKILLS

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- Frontend: React, Next.js, TypeScript, JavaScript, HTML, CSS.
- Backend: Python, Django, Django REST Framework, Node.js, Express.js, REST APIs
- Databases: PostgreSQL, SQL, MongoDB, Prisma ORM.
- Cloud & DevOps: AWS, Docker, Git, GitHub, GitHub Actions, Render, Supabase.
- AI & Automation: OpenAI APIs, Machine Learning, Neural Networks.

REFERENCES

Alexander Nieve Romero	Phone
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