Christian Henao

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Software Developer

ABOUT ME

Dedicated Software Developer with extensive experience in building efficient, scalable, and secure backend, frontend, and mobile applications. Skilled in microservices architecture, Kubernetes orchestration, and cloud-based technologies to deliver robust, high-performance APIs, payment platforms, messaging systems, and data management solutions.

Proficient in mobile app development using Flutter and React Native, focusing on intuitive, user-friendly interfaces that enhance user experience. Strong expertise in computer security, authentication protocols, and digital certificate management, ensuring applications comply with top-level protection standards.

Adaptable to emerging technologies and methodologies, with a proven track record of solving complex technical challenges. Fluent in English (B2), capable of effective communication and collaboration in international teams. Proactive, analytical, and committed to continuous learning and delivering impactful project outcomes.

WORK EXPERIENCE IN TIME

- 2024 - To Date | Finova SAS | Desarrollador Full Stack

- 2022 -2024 | Frelancer

ACADEMIC BACKGROUND

- 2023 –to date ·SENA diseño multimedia y web.

- 2021 - 2022 • Universidad Autonoma de bucaramanga- programming skills with emphasis on web applications

LANGUAGES

Inglés b2

Español

TECHNICAL SKILLS

- Backend Development: Node.js, NestJS, Express, TypeScript
- Frontend Development: Next.js, React, Zustand
- Databases: MySQL, PostgreSQL, SQLite, Prisma (ORM)
- Architecture and Microservices: Kubernetes, Docker, Nginx, NATS, TCP
- APIs Development: REST, WebSockets
- Authentication and Security: JWT, OAuth, TLS/SSL, Certificate Management
- Cloud Services: AWS, Cloudinary
- Payment Gateways: Stripe, integration with banking systems
- Mobile Development: Flutter, React Native
- Interface Design: Graphic design focused on UX/UI for systems and screens.

SOFT SKILLS

- Problem-solving skills (identification and efficient solution of technical challenges)
- Adaptability (quick learning of new technologies and work environments)
- Teamwork and communication (effective collaboration with developers, designers and clients)
- Time management and organization (handling multiple projects and meeting deadlines)
- Analytical thinking (ability to structure and optimize systems and architectures)
- Proactivity (constant search for improvement and optimization in each project)

WORK EXPERIENCE

APTP PAYMENT GATEWAY API DEVELOPMENT

- Led the design and development of the APTP Payment Gateway API, enabling secure and efficient payment collection through Goupagos AvVillas.
- Developed end-to-end API functionality, handling frontend data reception, secure login session creation, and transaction integrity.
- Implemented real-time payment status updates using a notification webhook with a dedicated URL.
- Created a scheduled cron job to monitor and update pending transactions, integrating with external APIs to ensure accurate payment application.
- Designed and optimized the database architecture using Prisma ORM and MySQL, ensuring scalability and high reliability.
- Built backend services with Node.js and TypeScript, applying design patterns such as Singleton for database instance management and Adapter to decouple external dependencies.
- Delivered a scalable, secure payment processing solution that improved system automation and maintained seamless integration in a commercial environment.

DEVELOPMENT OF MESSAGING API WITH WHATSAPP

- Designed and developed a scalable Messaging API leveraging the Meta WhatsApp Business API to improve communication between businesses and customers.
- Enabled mass message distribution including text templates, images, and videos, with user-friendly upload of recipient data via Excel files.
- Implemented real-time bi-directional communication using WebSocket connections for frontend and bot interactions.
- Developed a message-processing bot that categorizes events from Meta API, filtering relevant messages, notifications, and status updates to streamline data management.
- Established a WebSocket server capable of identifying and classifying clients, assigning unique IDs, and managing access permissions for controlled message viewing.
- Integrated advanced message filtering mechanisms to ensure processing of only relevant content based on predefined business criteria.
- Utilized Node.js and Express for backend development, combined with Prisma and MySQL for robust data persistence.
- Applied Singleton design pattern to optimize database and WebSocket server performance, enhancing scalability and operational efficiency.
- Delivered a secure, efficient, and automated communication platform facilitating seamless interactions between businesses and customers.

CUSTOM E-COMMERCE PLATFORM DEVELOPMENT

- Designed and built a fully customized online store tailored to client needs, enabling efficient showcasing and sales of handmade products.
- Implemented individual product pages with social media sharing capabilities to enhance customer engagement before website visits.
- Developed a comprehensive administrative dashboard offering real-time visual insights on sales performance and key metrics to streamline business operations.
- Integrated a user tracking system to analyze customer preferences and shopping behaviors, optimizing the interface for an immersive and engaging browsing experience.
- Seamlessly incorporated Google and Facebook Login for simplified user authentication while ensuring secure internal data management.
- Utilized Cloudinary API for efficient image storage and optimization with predefined transformation properties.
- Key technology stack includes:
  - Frontend: Next.js with TypeScript and Zustand for state management.
  - Backend: NestJS with TypeScript, managing API endpoints, interacting with Cloudinary and PostgreSQL database.
  - Data Persistence: Prisma ORM for efficient and structured database integration.
- Delivered a scalable, modern, and highly user-friendly e-commerce platform aligned with unique client requirements to maximize performance and satisfaction.

CUSTOM E-COMMERCE PLATFORM DEVELOPMENT

- Developed a tailored online store enabling clients to effectively showcase and sell handmade products with a seamless user experience.
- Implemented individual product pages facilitating direct sharing links via social media for pre-visit engagement.
- Created an intuitive administrative dashboard providing real-time sales tracking and actionable key performance indicators (KPIs) to support business management.
- Integrated user behavior tracking to analyze preferences and shopping habits, optimizing the interface to boost customer engagement and product discovery.
- Implemented secure authentication supporting OAuth-based Google and Facebook Login, ensuring streamlined user registration and robust internal data management.
- Utilized Cloudinary API for fast, scalable image storage and manipulation using predefined dynamic transformations.
- Technology stack highlights:
  - Frontend: Next.js combined with TypeScript and Zustand for efficient state management.
  - Backend: NestJS API with TypeScript handling communications between frontend, Cloudinary, and PostgreSQL database.
  - Database: Prisma ORM ensuring structured, optimized data persistence and scalability.
- Delivered a robust, scalable, and user-centric e-commerce solution tailored to client requirements, enhancing both backend efficiency and frontend usability.

EXPLORATION AND DEVELOPMENT IN MOBILE APPLICATIONS AND MICROSERVICES ARCHITECTURES

- Developed cross-platform mobile applications using Flutter and React Native, focusing on creating dynamic, intuitive, and highly responsive user interfaces optimized for user engagement.
- Designed and implemented a microservices ecosystem using NATS and TCP protocols for efficient inter-service communication.
- Created a Stripe-integrated payment gateway microservice streamlining secure and seamless transaction processing.
- Developed a centralized data persistence microservice ensuring reliable information storage and retrieval across the ecosystem.
- Built a messaging and communication microservice enabling smooth real-time event and data transmission between services.
- Gained hands-on experience with Kubernetes for container orchestration and management.
- Deployed the system on AWS cloud, navigating cloud deployment challenges to ensure scalable and resilient infrastructure.
- These projects reflect a proactive approach to learning new technologies, improving architectural design skills, and enhancing solution scalability and efficiency in distributed systems.