

Christian Henao

SCRISTXYZ@GMAIL.COM



CEL: 3205711428



car 23 372-57 Pereira -
Risaralda



Software Developer

ABOUT ME

I am a dedicated software developer with a strong passion for creating efficient, scalable, and secure technological solutions. Over the course of my career, I have gained extensive experience in developing backend, frontend, and mobile systems, seamlessly integrating diverse technologies and architectures such as microservices, Kubernetes, and cloud-based services.

My expertise lies in designing and implementing robust APIs, payment platforms, messaging systems, and data management solutions, always prioritizing optimal performance and seamless integration. I am also proficient in mobile development using Flutter and React Native, with a focus on crafting intuitive and user-friendly interfaces that enhance the overall user experience.

Furthermore, I possess in-depth knowledge of computer security, authentication processes, and digital certificate management, enabling me to deliver applications that meet the highest protection standards. I thrive on tackling complex technological challenges and devising innovative solutions, while quickly adapting to new tools and methodologies.

With a B2 level of English, I am well-equipped to communicate and collaborate effectively in international environments. I pride myself on being proactive, analytical, and deeply committed to continuous improvement, always striving to bring meaningful value to every project I undertake.

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 DEVELOPMENTP

I SPEARHEADED THE DESIGN AND DEVELOPMENT OF THE APTP API, A ROBUST PAYMENT GATEWAY THAT STREAMLINES THE COLLECTION PROCESS VIA GOUPAGOS AVVILLAS. THIS API MANAGES END-TO-END FUNCTIONALITY, FROM RECEIVING FRONTEND DATA TO CREATING SECURE LOGIN SESSIONS FOR THE COLLECTION COMMERCE, ENSURING TRANSACTION INTEGRITY AND SECURE STORAGE.

TO ENHANCE SYSTEM AUTOMATION, I IMPLEMENTED A NOTIFICATION WEBHOOK VIA A DEDICATED URL, ENABLING REAL-TIME UPDATES OF PAYMENT STATUSES. ADDITIONALLY, I DEVELOPED A SCHEDULED CRON TASK THAT ACTIVELY MONITORS PENDING TRANSACTIONS IN THE DATABASE. THIS TASK PROCESSES STATUS CHANGES AND COMMUNICATES WITH AN EXTERNAL API TO ENSURE PAYMENTS ARE CORRECTLY APPLIED TO THEIR DESIGNATED DESTINATIONS.

THE DATABASE ARCHITECTURE WAS METICULOUSLY CRAFTED USING PRISMA AND MYSQL, PROVIDING A FOUNDATION OF SCALABILITY AND RELIABILITY. FOR BACKEND DEVELOPMENT, I UTILIZED NODE.JS AND TYPESCRIPT, INCORPORATING ADVANCED DESIGN PATTERNS SUCH AS SINGLETON TO MANAGE SINGLE DATABASE INSTANCES AND ADAPTER TO DECOUPLE EXTERNAL DEPENDENCIES, MAINTAINING SEAMLESS FUNCTIONALITY ACROSS THE SYSTEM. THIS PROJECT SHOWCASES MY EXPERTISE IN DESIGNING SECURE, EFFICIENT, AND SCALABLE PAYMENT PROCESSING SOLUTIONS, ENSURING RELIABLE INTEGRATION AND PERFORMANCE IN COMMERCIAL ENVIRONMENTS.

• DEVELOPMENT OF MESSAGING API WITH WHATSAPP

I CONCEPTUALIZED AND DEVELOPED A ROBUST MESSAGING API DESIGNED TO ENHANCE COMMUNICATION BETWEEN BUSINESSES AND THEIR CUSTOMERS BY FOSTERING PROXIMITY AND EFFICIENCY. LEVERAGING THE META API FOR WHATSAPP, THE SYSTEM SUPPORTS MASS MESSAGE DISTRIBUTION, INCLUDING TEXT TEMPLATES, IMAGES, AND VIDEOS. USER-FRIENDLINESS WAS A PRIORITY—USERS CAN SIMPLY UPLOAD AN EXCEL FILE WITH THE NECESSARY FIELDS, AND THE API SEAMLESSLY MANAGES MESSAGE DISTRIBUTION. TO ENSURE REAL-TIME COMMUNICATION, I IMPLEMENTED WEBSOCKET CONNECTIONS, ENABLING INTERACTION WITH BOTH THE FRONTEND AND A BOT RESPONSIBLE FOR PROCESSING AND CATEGORIZING EVENTS FROM META. THE BOT EFFICIENTLY DISTINGUISHES BETWEEN RELEVANT MESSAGES, NOTIFICATIONS, AND STATUS UPDATES, ENSURING STREAMLINED INFORMATION MANAGEMENT.

THE API ALSO OPERATES AS A WEBSOCKET SERVER, CAPABLE OF IDENTIFYING AND CLASSIFYING CONNECTED CLIENTS. IT ASSIGNS UNIQUE IDS AND DEFINES ACCESS PERMISSIONS, ALLOWING USERS TO VIEW SPECIFIC MESSAGES. ADVANCED MESSAGE FILTERING MECHANISMS WERE INTEGRATED TO PROCESS ONLY RELEVANT CONTENT BASED ON PREDEFINED CRITERIA.

FROM A TECHNICAL PERSPECTIVE, THE API AND BOT WERE BUILT USING NODE.JS AND EXPRESS, WITH PRISMA AND MYSQL HANDLING DATA PERSISTENCE. TO OPTIMIZE DATABASE AND WEBSOCKET SERVER PERFORMANCE, I IMPLEMENTED THE SINGLETON DESIGN PATTERN, ENSURING SCALABILITY AND OPERATIONAL EFFICIENCY.

THIS PROJECT SHOWCASES MY EXPERTISE IN CRAFTING INNOVATIVE COMMUNICATION SOLUTIONS, FACILITATING SEAMLESS AND AUTOMATED INTERACTIONS BETWEEN BUSINESSES AND THEIR CLIENTS.

• CUSTOM E-COMMERCE PLATFORM DEVELOPMENT

I DESIGNED AND DEVELOPED A FULLY CUSTOMIZED ONLINE STORE FOR A CLIENT, ENABLING THEM TO SHOWCASE AND SELL THEIR HANDMADE PRODUCTS WITH MAXIMUM EFFICIENCY. THE PLATFORM ALLOWS INDIVIDUAL PRODUCT DISPLAY AND THE ABILITY TO SHARE DIRECT LINKS VIA SOCIAL MEDIA, ENSURING A SEAMLESS AND ENGAGING SHOPPING EXPERIENCE, EVEN BEFORE VISITORS ACCESS THE WEBSITE.

TO STREAMLINE BUSINESS OPERATIONS, I IMPLEMENTED A COMPREHENSIVE ADMINISTRATIVE DASHBOARD THAT PROVIDES VISUAL INSIGHTS INTO SALES PERFORMANCE AND KEY METRICS. ADDITIONALLY, I INTEGRATED A USER TRACKING SYSTEM TO ANALYZE CUSTOMER PREFERENCES AND SHOPPING BEHAVIORS, OPTIMIZING THE INTERFACE TO CREATE A MORE ENGAGING AND IMMERSIVE BROWSING EXPERIENCE, ENCOURAGING DEEPER EXPLORATION OF THE PRODUCT CATALOG.

THE AUTHENTICATION SYSTEM WAS SEAMLESSLY INTEGRATED WITH GOOGLE AND FACEBOOK LOGIN, SIMPLIFYING USER REGISTRATION AND ACCESS WHILE MAINTAINING ROBUST INTERNAL DATA MANAGEMENT. FOR IMAGE STORAGE AND OPTIMIZATION, I INCORPORATED CLOUDINARY'S API, ENABLING QUICK AND EFFICIENT FILE ADJUSTMENTS THROUGH PREDEFINED PROPERTIES.

KEY TECHNOLOGICAL COMPONENTS OF THE PLATFORM INCLUDE:

- FRONTEND: BUILT USING NEXT.JS AND TYPESCRIPT, WITH ZUSTAND EMPLOYED FOR EFFICIENT STATE MANAGEMENT.
- BACKEND: DEVELOPED AN API POWERED BY NESTJS AND TYPESCRIPT, MANAGING INTERACTIONS WITH CLOUDINARY AND THE POSTGRESQL DATABASE.
- DATA PERSISTENCE: LEVERAGED PRISMA AS THE ORM TO ENSURE STRUCTURED, EFFICIENT, AND OPTIMIZED DATABASE INTEGRATION.

THIS SOLUTION DELIVERS A MODERN, SCALABLE, AND USER-FRIENDLY E-COMMERCE PLATFORM TAILORED TO MEET THE CLIENT'S UNIQUE NEEDS.

THIS PROJECT SHOWCASES MY EXPERTISE IN CRAFTING TAILORED E-COMMERCE SOLUTIONS, PRIORITIZING USER-FRIENDLY DESIGN, ADVANCED DATA ANALYSIS, AND ENHANCED USER EXPERIENCE.

• CUSTOM E-COMMERCE PLATFORM DEVELOPMENT

I DEVELOPED A TAILORED ONLINE STORE FOR A CLIENT TO SHOWCASE AND SELL THEIR HANDMADE PRODUCTS EFFECTIVELY. THE PLATFORM ENABLES INDIVIDUAL PRODUCT DISPLAYS AND PROVIDES DIRECT SHARING LINKS VIA SOCIAL MEDIA, ENSURING A SEAMLESS SHOPPING EXPERIENCE EVEN BEFORE USERS ACCESS THE WEBSITE.

TO ENHANCE BUSINESS MANAGEMENT, I IMPLEMENTED AN INTUITIVE ADMINISTRATIVE DASHBOARD FOR TRACKING SALES AND ANALYZING KEY METRICS. ADDITIONALLY, I INTEGRATED A USER TRACKING SYSTEM TO MONITOR PREFERENCES AND SHOPPING BEHAVIORS, ALLOWING FOR INTERFACE OPTIMIZATION THAT FOSTERS DEEPER ENGAGEMENT WITH THE PRODUCT CATALOG.

THE AUTHENTICATION SYSTEM SUPPORTS GOOGLE AND FACEBOOK LOGIN, STREAMLINING USER REGISTRATION AND ACCESS WHILE MAINTAINING ROBUST INTERNAL DATA MANAGEMENT. FOR EFFICIENT IMAGE STORAGE AND MANIPULATION, I UTILIZED CLOUDINARY'S API, ENABLING QUICK ADJUSTMENTS THROUGH PREDEFINED CONFIGURATIONS.

TECHNOLOGICAL ARCHITECTURE HIGHLIGHTS:

- FRONTEND: BUILT WITH NEXT.JS AND TYPESCRIPT, LEVERAGING ZUSTAND FOR STREAMLINED STATE MANAGEMENT.
- BACKEND: DEVELOPED A NESTJS-BASED API IN TYPESCRIPT TO MANAGE COMMUNICATION WITH CLOUDINARY AND THE POSTGRESQL DATABASE.
- DATA PERSISTENCE: EMPLOYED PRISMA ORM FOR STRUCTURED AND OPTIMIZED DATABASE INTEGRATION.

THIS PROJECT SHOWCASES MY EXPERTISE IN DESIGNING AND DELIVERING SCALABLE, USER-CENTRIC SOLUTIONS TAILORED TO CLIENT NEEDS.

• EXPLORATION AND DEVELOPMENT IN MOBILE APPLICATIONS AND MICROSERVICES ARCHITECTURES

BEYOND MY PRIMARY PROJECTS, I HAVE EXPLORED MOBILE APPLICATION DEVELOPMENT USING FLUTTER AND REACT NATIVE, LEVERAGING THEIR CAPABILITIES TO CRAFT DYNAMIC AND INTUITIVE USER INTERFACES. THIS ENDEAVOR REFLECTS MY PASSION FOR MOBILE APP DESIGN AND OPTIMIZING USER INTERACTIONS.

FURTHERMORE, DRIVEN BY CURIOSITY AND A DESIRE TO LEARN, I DESIGNED A MICROSERVICES ECOSYSTEM UTILIZING NATS AND TCP COMMUNICATION. WITHIN THIS ARCHITECTURE, I DEVELOPED KEY COMPONENTS, INCLUDING:

- A STRIPE-INTEGRATED PAYMENT GATEWAY, ENSURING SEAMLESS AND EFFICIENT TRANSACTION PROCESSING.
- A DATA PERSISTENCE MICROSERVICE, STREAMLINING CENTRALIZED INFORMATION STORAGE AND RETRIEVAL.
- A MESSAGING AND COMMUNICATION MICROSERVICE, ENABLING SMOOTH EVENT AND DATA TRANSMISSION BETWEEN MICROSERVICES.

THIS PROJECT ALSO MARKED MY FIRST EXPERIENCE WITH KUBERNETES, WHERE I GAINED VALUABLE INSIGHTS INTO ORCHESTRATION AND CONTAINER MANAGEMENT. ADDITIONALLY, I DEPLOYED THE SYSTEM ON AWS, IMMERSING MYSELF IN THE CLOUD DEPLOYMENT PROCESS AND OVERCOMING THE CHALLENGES IT ENTAILS. WHILE EXPERIMENTAL, THIS PROJECT SIGNIFICANTLY ENRICHED MY UNDERSTANDING OF SCALABLE ARCHITECTURES AND THEIR PRACTICAL APPLICATIONS IN DISTRIBUTED SYSTEMS.

THIS SET OF PROJECTS REFLECTS MY INITIATIVE TO LEARN AND APPLY NEW TECHNOLOGIES, STRENGTHENING MY ABILITY TO DESIGN EFFICIENT SOLUTIONS IN DIFFERENT AREAS OF SOFTWARE DEVELOPMENT.