

SANTIAGO AGUILAR TORRES

Software Engineer | Full-Stack Developer (TypeScript · React · Node.js · Spring Boot) | Cloud & DevOps

+57 314 256 6364 | santiagoaguilart0@gmail.com | Tunja, Colombia (Remote / Bogotá / Medellín) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Full-Stack Software Engineer with comprehensive software development lifecycle experience, specializing in TypeScript (React, Next.js, Node.js/Express) and enterprise backend with Java (Spring Boot), PostgreSQL, and Prisma. Proven track record leading technical design and delivery of own products: applied-AI tools with multi-model routing, offline-first Flutter mobile apps, and fare-collection platforms with offline validation. Experienced in agile cross-functional teams building international restaurant POS software, implementing automated testing (Vitest, Playwright), microservices, and cloud Linux DevOps (Docker, Coolify, CI/CD with GitHub Actions). Holds a B.S. in Systems Engineering with Academic Honors (Santo Tomás University) and currently pursuing an M.S. in Software Engineering (UNIR, online). Available for permanent full-time roles (Remote or Relocation to Bogotá / Medellín).

WORK EXPERIENCE

Frontend / Full-Stack Developer | Trébol Colombia S.A.S.

Aug 2025 – Oct 2025 | Remote

Software Engineering Intern (Apr 2025 – Jul 2025) · Promoted to Developer following high-impact internship performance.

- Collaborated with the VP of Engineering and Tech Lead under Kanban methodology to define RESTful API contracts, resolve edge cases, and coordinate Git branch workflows.
- Developed production modules for the SekPos restaurant POS platform across Colombia, Mexico, and Panama (Kitchen Display Systems - KDS, real-time order synchronization, and electronic invoicing).
- Engineered responsive back-office administrative dashboards in React + TypeScript with advanced pagination and multi-attribute filtering to smoothly query massive order datasets.
- Optimized frontend web performance, reducing First Contentful Paint (FCP) from ~3.5 s down to ~1.5 s in React + TypeScript using lazy loading, memoization, and code splitting (certified via Google Lighthouse).

FEATURED ENGINEERING PROJECTS

Kanban AI · Multi-Provider AI Routing Collaborative Board | Next.js · TypeScript · Supabase ·

2026 | Web App

Docker

- Engineered a proprietary AI router featuring automated failover between Google Gemini and Groq for natural language task extraction and prioritization from unstructured text.
- Integrated a live audio and real-time speech transcription microservice leveraging LiveKit and Groq Whisper with meeting-grade call quality for remote engineering collaboration.

ViajeExpress · Offline-First Transit Payment & Fare Collection System | React Native · React ·

2024 – 2026 | Applied Research

Node.js · PostgreSQL

- Designed an offline-first urban transit fare collection architecture with dynamic QR codes regenerating every 5 seconds, validated locally via the bus driver's mobile device with balance reloads via Mercado Pago.
- Awarded Best Research Poster at the Ci3S Colombia 2024 International Congress and presented as scientific research across 6 international engineering conferences.

Worldly & Notys AI · Cross-Platform Mobile Applications with AI | Flutter · Next.js · Prisma ·

2025 – 2026 | Mobile Apps

SQLite · BLoC

- Co-developed Worldly (daily country discovery application with digital passport gamification in an international Colombia-Panama engineering collaboration).
- Built Notys AI (offline-first mobile productivity application with local Drift database, standardized multi-model AI routing, and device-native speech recognition).

EDUCATION

International University of La Rioja (UNIR) | Master of Science in Software Engineering and

Mar 2026 – 2027 | Online / Spain

Computer Systems

- Specialization in distributed systems architectures, cloud computing, software lifecycle security, and software quality assurance.

Santo Tomás University | Bachelor of Science in Systems Engineering (Graduated with Academic

Aug 2021 – Sep 2026 | Tunja, Colombia

Honors)

- Recognitions: Academic Honor Distinction · Undergraduate Teaching Assistant in programming and algorithms (mentored 60+ students) · Student Research Lead.

RESEARCH & INTERNATIONAL CONFERENCES

Keynote presenter and researcher across 6 international engineering conferences held in Colombia:

- VIII International TEINCO Congress 2025 (Bogotá, Oct 2025) – Keynote on web platforms and distributed software applications.
- II International Congress of Engineering with Social Meaning – CIIS 2025 (Bogotá, May 2025) – Presenter on applied technology in public transit.
- I International Congress on Systems Engineering Research Ci3S Colombia (Tunja, Sep 2024) – Winner of the Best Research Poster Award.
- VII International TEINCO Congress 2024 (Bogotá, Oct 2024) – Presenter on digital payment architectures and offline verification.

TECHNICAL SKILLS

- **Programming Languages:** TypeScript, JavaScript (ES6+), Java, Python, Dart, SQL, HTML5, CSS3 / Tailwind CSS.
- **Frontend & Mobile:** React, Next.js, Redux Toolkit, Zustand, Flutter (BLoC, Riverpod), React Native.
- **Backend & Databases:** Node.js, Express, Java / Spring Boot, RESTful APIs, RBAC, JWT, Multi-tenant, Webhooks, Cron Jobs, Prisma ORM, PostgreSQL, Supabase, MySQL, SQLite, Redis.
- **DevOps, Cloud & Infra:** Docker, Linux VPS, Coolify, GitHub Actions (CI/CD), Vercel, Netlify, Git, n8n, Postman, SSL/TLS, Server Hardening.
- **Testing & QA:** Vitest, Playwright, Unit Testing, Integration Testing, End-to-End (E2E) Testing, Google Lighthouse.
- **Applied AI & APIs:** LLM APIs (Gemini, Claude, Groq, OpenAI), Multi-Model Failover Routing, Meta Graph API.

CERTIFICACIONES & IDIOMAS

- **Certifications:** Scrum for Ops & DevOps Fundamentals (SCRUMstudy) · JS Algorithms & Data Structures (freeCodeCamp) · Responsive Web Design (freeCodeCamp) · Finalist at Boyacá Innova 2025 Hackathon.
- **Languages:** Spanish (Native) · English (Working Technical Proficiency: Fluent reading and comprehension of official technical documentation, architecture specifications, and global APIs).