Jesus "Alexis" Canon

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 7+ years shipping production web and mobile applications with React, TypeScript and Node.js for companies across the US, Canada and Latin America. Comfortable working directly with users and business stakeholders: scoping requirements in context, prototyping fast, integrating third-party and AI systems (ChatGPT, Claude, Deepgram), and owning deployment and operations end-to-end without a dedicated platform team. CTO of AromaDev, where I built Canon Parking, a multi-tenant SaaS platform, end-to-end from operator discovery through architecture, build and deployment, bringing product thinking and end-to-end ownership to engineering teams. Recent work is applied AI: integrating LLM APIs (ChatGPT, Claude, Deepgram) into user-facing product features, and building agent systems with scoped tool access, least-privilege permissions, human-in-the-loop approval gates and automated verification. Completed Revature's Forward Deployed Engineer (FDE) Foundations Program in 2026.

CORE SKILLS

Frontend: React, TypeScript, JavaScript, HTML, CSS, Redux, Next.js, Material UI, Kendo UI, Tailwind CSS, shadcn/ui, PWA
Backend: Node.js, Express.js, Python, FastAPI, Flask, Firebase Functions, Firebase Admin SDK, Java, Spring Boot, REST APIs, Webhooks, JWT Authentication
Databases: PostgreSQL, Redis, Row-Level Security (RLS), schema migrations, MongoDB, MySQL, Firestore, IndexedDB
Cloud / DevOps: AWS, Firebase, Serverless, Docker, Docker Compose, container orchestration, microservices, Nginx reverse proxy, Terraform (IaC), GitLab CI/CD, Git, observability, Swagger, Postman, environment secrets, approval gates
Testing: Jest, unit testing, regression tracking
AI / Integrations: ChatGPT API, Claude AI, Deepgram, LLM API integration, prompt engineering, agent orchestration, MCP (Model Context Protocol), tool / function design, human-in-the-loop approval gates, Twilio, SendGrid, Google Maps, Okta, Google Analytics
Product / Delivery: Agile (SCRUM, KANBAN), Multi-tenant Architecture, Customer-Facing Delivery, Requirements Scoping, Rapid Prototyping, Product Analytics, SaaS Metrics

PROFESSIONAL EXPERIENCE

CTO & Full-Stack Engineer — AromaDev · Canon Parking | Austin, TX **Jul 2025 – Present**

- Worked directly with parking operators and administrators to scope requirements in context, demo working software early and iterate from their operational feedback, translating real field constraints into product and architecture decisions.
- Built the core backend for a SaaS parking management platform, implementing 34 REST endpoints with TypeScript, Express, Firebase Functions and Firestore across authentication, parking operations, invoicing, reports, users, companies and clients; secured 91% of routes with JWT middleware.
- Designed an offline-first, multi-tenant architecture using IndexedDB, PWA and Firebase with role-based access control (super admin, admin, cashier) and real-time synchronization, so operators can keep working through network loss in the field and devices reconcile on reconnect.
- Designed per-tenant onboarding and configuration — locations, rates, roles and users — so a single codebase can serve multiple operators without one-off forks.
- Designed the operational analytics layer for administrators and operators, delivering 10 dashboard and 2 reporting endpoints to track revenue, occupancy, active tickets, sessions, vehicle-type performance and payment completion across global and per-location views.
- Owned deployment and operations end-to-end with no platform team: GitLab CI/CD across dev, qa, hotfix and production (100% manual-gated Firebase deploys), environment secrets and approval gates, plus KPI instrumentation such as NPS, CSAT, activation rate, time-to-value, feature adoption, CAC and LTV:CAC.
- Built and operate a multi-agent development system for the platform: an orchestrator plus five specialized agents (CI/CD, deploy, security/IAM, backups, QA), each with a least-privilege permission matrix and a delegation protocol that halts on sensitive actions — secrets, IAM changes, protected-branch pushes — for human approval, with work tracked on a story board that has an explicit approval stage.
- Extended the agent system with MCP servers and custom tools — code generators for the layered TypeScript architecture, a database-migration generator, and an automated quality gate (36 contract tests, security smoke suites, a 58-request / 251-assertion Postman–Newman collection, OpenAPI lint, and 6 SQL contract tests asserting row-level-security and RBAC invariants) that every agent-authored change must pass before a merge request.
- Migrated the platform from Firestore to a PostgreSQL star schema with row-level security and role-based access control across 27 versioned migrations, containerized as a four-service Docker Compose stack (Postgres, API, web, Nginx reverse proxy), and authored Terraform IaC (VPC, subnets, security groups, Route 53 DNS) for the AWS production target with a documented recovery runbook.

Tech Stack: *React, TypeScript, Node.js, Express.js, PostgreSQL, Redis, Firebase Functions, Firestore, IndexedDB, PWA, Docker, Nginx, Terraform, GitLab CI/CD, JWT, Postman, MCP*

Senior Software Developer (Contract) — Valsoft | Remote, Canada **Dec 2024 – May 2025**

- Designed a modular React and TypeScript frontend architecture for a SaaS product, separating UI, state and integration layers to improve maintainability and support faster delivery of reusable product modules.
- Shipped AI features to production for a SaaS product: integrated ChatGPT, Claude and Deepgram APIs into user-facing workflows and designed the Redux state architecture around asynchronous model responses and error handling, keeping UI behavior predictable when model calls were slow or failed.
- Built Python microservices with Flask that exposed the team's backend contracts as versioned REST endpoints and integrated multiple AI providers behind a modular interface, so models could be added or swapped without changing the frontend workflows consuming them.
- Built secure API integration patterns for authentication, protected requests and error handling, enabling the team to track task completion success, frontend reliability and regression risk across critical workflows.

Tech Stack: *React, TypeScript, Redux, Node.js, Python, Flask, Jest, ChatGPT API, Claude AI, Deepgram*

Software Engineer (Contract) — Grupo Boötes | Remote **Jun 2023 – Sep 2024**

- Developed a React and TypeScript inventory management system with role-based workflows for users, permissions and inventory operations, increasing administrative efficiency by 20%.
- Proposed and iterated the UI/UX for each user role — admin, manager and salesperson — turning what each role needed to see and act on into screen flows and layout options, reviewing them with stakeholders and implementing the approved direction in React.
- Built role-based UI flows for admin, manager and salesperson profiles, improving workflow speed by 15%.
- Led the integration of security protocols across authentication and permissions, reducing data access vulnerabilities by 30%.
- Increased release confidence by adding Jest coverage for critical inventory flows (creation, update, query), enabling tracking of UI regression risk and flow success rate.

Tech Stack: *React, TypeScript, Redux, Node.js, MongoDB, Jest*

Software Engineer (Contract) — Dualboot Partners | Raleigh, NC **Jul 2022 – May 2023**

- Redesigned and refactored the frontend, migrating components to React functional architecture and TypeScript patterns, increasing user interaction and engagement by 25%.
- Collaborated with backend teams to integrate new API features, reducing data retrieval time by 30%.
- Led UI rebranding across shared modules, cutting development time by 15% through reusable component, hook and service patterns.
- Built dynamic dashboards, data visualizations and supporting REST API enhancements, converting operational data into interactive reporting views by period, category and status.

Tech Stack: *React, TypeScript, Node.js, Express.js, MongoDB*

Software Engineer — EPAM Anywhere | Remote **Apr 2022 – Sep 2022**

- Translated product requirements into scalable technical solutions, balancing performance, maintainability and delivery constraints to align engineering implementation with business needs.
- Developed maintainable code and participated in code reviews to strengthen standards around performance, readability and testability across product modules.
- Contributed to Agile execution through task breakdown, effort estimation and cross-functional coordination with product, QA and engineering stakeholders.

Tech Stack: *JavaScript, TypeScript, React, Node.js, Agile SCRUM*

Web UI/SSR Developer — Globant | San Francisco, CA **Aug 2021 – Apr 2022**

- Developed scalable React and TypeScript features for onboarding, navigation and content-heavy workflows, supporting user access and product interaction across multi-domain systems.
- Integrated Okta authentication and secure token-based API communication, strengthening access control and consistency across protected frontend flows.
- Built reusable UI components and dynamic templates backed by AWS services, reducing duplicated UI work and supporting scalable content delivery patterns.

Tech Stack: *React, TypeScript, Node.js, AWS, Okta, MongoDB*

Front End Developer — Optic Power | San Francisco, CA **Apr 2021 – Aug 2021**

- Delivered modular React UI components from Figma designs and connected them to backend workflows, turning product requirements into reusable frontend building blocks.
- Built backend services and REST endpoints in Python with Flask on the client's platform, extending the API surface the React application consumed and backing the third-party integrations delivered in the same engagement.
- Integrated Twilio, SendGrid and Google Maps APIs while supporting backend APIs and Redux state management, expanding communication, email and location-based capabilities across 3 third-party services.

Tech Stack: *React, TypeScript, Node.js, Express.js, Python, Flask, MongoDB, PostgreSQL, Redux*

Full-Stack Developer — everis (NTT Data) | Bogota, Colombia **Jul 2018 – Apr 2021**

- Developed enterprise web and mobile applications with React, Angular and Ionic, supporting multi-channel customer experiences across browser, mobile and self-service interfaces.
- Implemented OTP and biometric validation in transactional systems, strengthening user verification and secure authentication across customer-facing workflows.
- Built full-stack solutions for self-service kiosks and integrated Google Analytics tracking for navigation, behavior and conversion events.

Tech Stack: *React, Angular, Ionic, Node.js, Java, Spring Boot, PostgreSQL, Google Analytics*

EDUCATION

Post Graduate Certificate in AI and Machine Learning: Business Applications **In Progress**
University of Texas at Austin | Austin, TX

Bachelor of Engineering — Electrical, Electronics and Communications Engineering **2023**
Universidad Surcolombiana | Neiva, Colombia

CERTIFICATIONS

FDE Foundations Program — Revature **Jun 2026**
Credential ID: FDE-FP-00005

- AI-Augmented Development (AI-AD) · Agentic Troubleshooting & Debugging · Full-Stack Architecture (Next.js with FastAPI) · Microservices & Container Orchestration · CI/CD Pipeline Engineering & Git Discipline · Distributed Log Correlation & Observability

KEY ACHIEVEMENTS

- Built Canon Parking (AromaDev) from scratch as a SaaS parking management platform with multi-tenant architecture, billing workflows, operational dashboards and Firebase/GitLab CI/CD, scoped directly with parking operators.
- Delivered a serverless backend with 34 REST endpoints, 91% JWT-protected API coverage, 10 dashboard endpoints, 2 reporting endpoints and 4 deployment environments, owning build, deploy and operations without a platform team.
- Integrated AI tools (ChatGPT, Claude, Deepgram) into product workflows to automate user interaction, content generation and development support.
- Connected engineering, product and marketing metrics, including NPS, CSAT, activation rate, feature adoption, retention, time-to-value, CAC, LTV:CAC and ROAS.
- Designed and operate a multi-agent engineering system — orchestrator plus five specialized agents, per-agent permission matrix, human approval gates and an automated QA gate — coordinating two LLM coding runtimes on a single production codebase.

SELECTED PROJECTS

- Canon Parking (AromaDev, CTO) — SaaS parking management platform for billing, real-time operations, multi-location support and dashboards. canonparking.com
- Claio AI — AI-powered platform with workflow automation and ChatGPT, Claude and Deepgram integrations. claio.ai
- USA Today — high-traffic media platform; contributed to scalable frontend systems, onboarding and reusable components. usatoday.com
- Fortified Wisdom — financial intelligence platform with dashboards, data visualizations and business insight workflows. fortified.com/fortified-wisdom