

FELIPE CARL

Senior Full-Stack Software Engineer

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 6+ years of experience building and evolving production web applications, with deep expertise in React and TypeScript and hands-on backend experience using NestJS, Node.js, PostgreSQL, Prisma, and GraphQL. Experienced in taking features from requirements and technical design through implementation, testing, documentation, and release. Strong ownership mindset, with experience mentoring engineers, leading technical initiatives, investigating complex issues, and collaborating remotely with international product, engineering, QA, and business teams. Fluent in English and based in LATAM.

TECHNICAL SKILLS

Frontend: React, TypeScript, JavaScript, HTML5, CSS3, Sass/SCSS, Tailwind CSS, Material UI, Shadcn/ui, Radix UI

Backend: Node.js, NestJS, Express, REST APIs, GraphQL, JWT, Passport.js, bcrypt, class-validator

Databases: PostgreSQL, Prisma ORM, MongoDB, Mongoose, relational modeling, migrations, indexes, constraints, query optimization

Architecture: Modular Architecture, Micro-Frontends, Monorepos, Multi-Tenancy, RBAC, Adapter Pattern, DTO Pattern

Testing: Jest, Vitest, React Testing Library, Cypress, Supertest

Tooling: Git, Docker, Azure DevOps, ArgoCD, GitHub Actions, Swagger/OpenAPI, SonarQube, New Relic

Practices: Technical Scoping, Project Ownership, Code Review, Mentoring, Documentation, Agile Delivery, Production Troubleshooting

AI-Assisted Development: Claude, Cursor, ChatGPT, and Codex for prototyping, code review, refactoring, debugging, and technical documentation

PROFESSIONAL EXPERIENCE

BEES / AB INBEV - Software Engineer

Current Role

Remote

- Build and evolve software for a large-scale B2B commerce platform serving 1,000+ users across 15 countries and supporting white-label solutions for global companies.
- Take ownership of frontend initiatives from technical discovery and estimation through implementation, validation, documentation, and release.
- Work closely with product, engineering, QA, and business stakeholders to clarify requirements, define scope, identify risks, and communicate progress.
- Contribute to the company's developer portal, improving frontend architecture, documentation workflows, and integration with internal platform services.
- Develop user-facing integrations for internal AI chat and smart search capabilities, transforming backend responses into reusable and intuitive interface experiences.
- Led the setup, deployment, and integration of a new micro-frontend in an environment where configuration and release processes were not fully documented.
- Investigated routing, dependencies, environment configuration, and CI/CD requirements, then documented the process to make future integrations more reliable and repeatable.
- Built and maintained reusable React and TypeScript components aligned with internal design system and quality standards.
- Trained 40+ engineers on the internal design system, improving adoption, reducing UI-related defects by 50%, and decreasing delivery time for small components.
- Authored approximately 90% of the technical documentation associated with major migration workflows, improving onboarding and reducing duplicated investigation.

ELEMENTAL SYSTEMS - Lead Frontend Developer

Remote

- Led the modernization of legacy React applications using functional components, React Hooks, and TypeScript.
- Worked with product and backend teammates to scope features, clarify technical constraints, and deliver complex user-facing functionality.
- Introduced reusable component patterns and structured state management with Context API and Effector, reducing code duplication by 30%.
- Developed complex interfaces, including editable data grids, custom widgets, forms, and backend-integrated operational workflows.
- Architected and delivered touchscreen kiosk applications for a fuel station chain, integrating frontend interfaces with transaction, confirmation, and receipt services.
- Investigated production issues across frontend and backend integration boundaries and coordinated fixes with engineering teammates.
- Mentored developers on React, component architecture, maintainability, testing, and software engineering best practices.

CARL CONSULTING - Full-Stack Developer

Blumenau, Brazil

- Designed, developed, and deployed a production retail management SaaS application using React, TypeScript, Node.js, Express, and MongoDB.
- Owned the application lifecycle, including requirements gathering, data modeling, authentication, role-based permissions, frontend development, backend APIs, deployment, and production support.
- Built operational workflows for customer management, product data, image handling, permissions, and business dashboards.
- Containerized the application with Docker, improving deployment consistency and maintainability.

SELECTED PROJECT

PR TRACKER - Full-Stack Pull Request Management Platform

Ongoing

Private repository

- Designed and developed a multi-tenant SaaS platform that centralizes pull requests, repositories, organizations, workspaces, users, invitations, and engineering workflows.
- Built the frontend with React, TypeScript, Vite, Zustand, Tailwind CSS, Shadcn/ui, Radix UI, React Router, Framer Motion, and i18next.
- Developed the backend with NestJS, Prisma, and PostgreSQL using modules, controllers, services, guards, interceptors, decorators, and global exception filters.
- Designed relational models and migrations for organizations, workspaces, repositories, members, roles, invitations, pull requests, notifications, plans, and audit history.
- Implemented JWT authentication, HTTP-only cookies, password hashing, rate limiting, protected routes, magic-link authentication, and encrypted storage for platform tokens.
- Integrated with the GitHub API using an adapter-based architecture, concurrency controls, scheduled synchronization, and structured error handling.
- Added role-based access control and protections for critical business rules, including sole-owner scenarios and member administration.
- Implemented transactional email, audit logs, health checks, Swagger documentation, structured logging, and automated frontend and backend tests.
- Structured the application as a TypeScript monorepo with shared types across frontend and backend packages.

EDUCATION & LANGUAGES

Bachelor of Business Administration - Fundação Universidade Regional de Blumenau, December 2018

Languages: Portuguese - Native | English - Fluent