

SPENCER RAUCH

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PROFILE

Full-stack software engineer delivering production systems across React, TypeScript, NestJS, C#/.NET, PostgreSQL, and SQL Server. Owns complex integrations, data-intensive workflows, and application reliability from design through deployment. Background in technical instruction and developer mentorship.

TECHNICAL SKILLS

Languages: C#, TypeScript, JavaScript, SQL, Python, Java

Frontend: React, Vite, Redux, Tailwind CSS, HTML/CSS, FullCalendar

Backend & Data: .NET / ASP.NET Core, NestJS, Node.js, Dapper, Prisma, PostgreSQL, SQL Server, Redis, MySQL

Integrations & Delivery: REST APIs, OAuth 2.0, webhooks, RBAC, background jobs, Git/GitHub Actions, AWS, Azure, Cloudflare

PROFESSIONAL EXPERIENCE

Software Engineer (Contract) | Canter Power Systems | Remote | May 2025–Present

- Developed production sales, scheduling, and estimate workflows across React/TypeScript, NestJS/Prisma, and C#/.NET/Dapper services, integrating frontends, APIs, authentication, relational data, and external systems.
- Implemented a major redesign of customer self-serve and representative estimate forms across four repositories, preserving prior drafts, adding multi-device handoff and revision-based conflict detection, and improving tablet usability.
- Engineered ServiceTitan synchronization and reporting across six tenants; reconciled inactive-customer coverage (~51,400 records) and enriched equipment, membership, warranty, and maintenance classifications.
- Built the scheduling platform foundations beginning May 2025: location/service management, recurring employee schedules, timezone-aware slot generation, and full-stack scheduling administration; later extended appointment workflows, permissions, confirmations, and drag-to-reschedule tools.
- Diagnosed recurring PostgreSQL connection exhaustion in a NestJS/Prisma service, consolidated duplicated dependency-injection pools, and stabilized per-instance connections at 25 while eliminating P2037 errors.
- Delivered Atlas/.NET API and SQL-backed business workflows for generator selection, electrical load calculations, site surveys, pricebook administration, payment schedules, and estimate processing.
- Built internal dashboards with filtering, pagination, and complete-result CSV exports for estimate progress, branch utilization, customer/service reporting, and operations monitoring.
- Reduced problematic frontend build times from 15+ minutes to under one minute by resolving Tailwind/PostCSS configuration issues; handled production diagnostics, cross-service bugs, releases, and stakeholder reviews.

Curriculum Support (Contract) | Ciso Codes | Remote | Jun 2025–Oct 2025

- Reviewed React/TypeScript curriculum for technical accuracy and clarity and provided occasional student support.

Web Development Instructor | Coding Dojo | Remote | Jul 2022–Dec 2024

- Taught full-stack development in C#/.NET, MERN, and Python/Flask; mentored students in debugging, architecture, code review, and deployments. Earned an 86 NPS across 345 anonymous student surveys.

Teaching Assistant, Web Development | Coding Dojo | Remote | Nov 2021–Jul 2022

- Supported instruction through technical demonstrations, troubleshooting, code review, and one-on-one coaching.

Freelance Developer | OatBoy! | Dec 2021–Dec 2022

- Designed and maintained a custom Flask/MySQL inventory and batch-control application.

Warehouse Operations | PPG Finishes | Clackamas, OR | Dec 2007–May 2021

- Managed logistics, inventory, and regulated-material operations; trained colleagues and served in interim management roles.

EDUCATION

B.S. Computer Science, Colorado Technical University (2024) — Software Engineering; Summa Cum Laude, 3.99 GPA

Full-Stack Developer Certificate, Coding Dojo (2021) | Associate of General Studies, Clackamas Community College (2008)