

Benjamin Perrault

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👤 PROFILE

I'm a full-stack software engineer based in Tulsa, Oklahoma with multiple years of experience building with Ruby, JavaScript, & Go. Most recently I co-created Nexus, an open-source tool for generating and deploying GraphQL APIs to AWS. I'm a curious, tech-agnostic lifelong learner eager to explore new languages, frameworks, and tools.

📁 EXPERIENCE

Software Engineer & Co-Creator, Nexus - nexus-graphql.github.io 2022 – present

Nexus is an open-source tool to quickly generate GraphQL APIs from multiple data sources and deploy to AWS.

- Led development of the command line interface for API generation & deployment (Node.js, GraphQL Mesh, AWS)
- Built a responsive dashboard that facilitates API customization, testing, and monitoring (React, Express, Node.js)
- Designed and implemented a re-deployment notification system, automated local test server hot-reloading, and built a dynamic guided GUI for users to configure linking data across sources (React, Express, Node.js)
- Resolved over-fetching & N+1 issues with custom schema extensions and resolvers (GraphQL, YAML)
- Extended library functionality with custom middleware functions and templates, including an authorization middleware function to ensure secure access to the server (GraphQL Mesh, Node.js, YAML, JSON)
- Established team workflows and best practices including issue tracking, linter setup, and extraction of repetitive code to modules reducing bugs and regression (GitHub issues, ESLint, Node.js)
- Containerized server code for deployment to AWS cloud infrastructure and assisted in automating AWS deployment and teardown (Docker, AWS CLI, Terraform, ECR, ECS/Fargate)
- Collaborated with a remote team of three engineers via daily standups & pair programming (Git, GitHub, Slack)
- Authored an in-depth technical case study: nexus-graphql.github.io

Software Engineer, open-source projects 2020 – 2022

A selection of the open-source projects developed during my 2.5-year career transition:

- Request Cloud - A database-backed webhook request inspection and debugging application (React, Express, MongoDB, PostgreSQL, deployed to Digital Ocean Droplet)
- Airline Routes - An interactive SVG map for viewing and sorting airline routes (React, JavaScript, Node.js)
- Todo Tracker - A Single Page Application backed by a PostgreSQL database (Ruby, Sinatra, ERB, SQL, PostgreSQL)

Marketing Campaign Director & Consultant, various companies 2014 – 2022

- Built the digital strategy and SEO campaign for a legal group that generates 900 organic leads per year
- 8-month software project management contract where I led the client-developer relationship, developed feature requirements and app workflows from client mockups and user interviews, manually tested application features each sprint, and wrote comprehensive bug reports
- Grew an agency marketing team from 0 to 4 people and generated revenue of over \$500k (primarily recurring)
- Collaborated with agency founders to develop goals, processes, and internal documentation as the company grew from 12 to 25+ people

🎓 EDUCATION

Launch School, Software Engineering & Full-Stack Web Development 2020 – 2022
A multi-year mastery-based curriculum teaching full-stack engineering fundamentals from first principles

University of Tulsa, B.S. Business Administration & B.A. Spanish 2011 – 2014

🧠 SKILLS

Languages

JavaScript (ES6+), Ruby, Golang, SQL, HTML/CSS

Libraries & Frameworks

Node.js, Express, React, Sinatra, jQuery, GraphQL

Tools & Databases

Git, GitHub, PostgreSQL, MongoDB, Bash, Docker

Cloud

DigitalOcean, AWS, Heroku, Terraform