Benjamin Perrault

Software Engineer

✒ benjaminperrault.com   ✉ benjamin.perrault@gmail.com   📍 Tulsa, Oklahoma   ⊙ 918benjamin

{} TECHNICAL PROJECTS

09/2022 – 12/2022 **Nexus,** Co-Creator & Software Engineer -- nexus-graphql.github.io ⧉

An open-source tool that generates a GraphQL API from multiple data sources and deploys to AWS cloud infrastructure, abstracting away dozens of manual steps for fast setup.

- Led the development of a command line interface to automate GraphQL server generation, drastically reducing manual configuration (Node.js, Inquirer, Commander)
- Created a dashboard for API customization, testing, and deployment monitoring with a re-deployment notification system, hot-reloading local test server, and advanced data source configuration via GUI (React, Express, TailwindCSS)
- Resolved multi-source over-fetching and N+1 performance issues with dynamically generated custom GraphQL schema extensions and resolvers (GraphQL Mesh, YAML)
- Containerized server code for deployment to AWS cloud infrastructure and automated AWS deployment and teardown (Docker, AWS CLI, Terraform, ECR, ECS Fargate)
- Authored an in-depth technical case study: *nexus-graphql.github.io* ⧉

08/2020 – 12/2022 **Software Engineer**

A selection of the 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 of airline routes (React, JavaScript, Node.js)
- Todo Tracker - A Single Page Application backed by a PostgreSQL database (Ruby, Sinatra, ERB, SQL, Postgres)

💼 PROFESSIONAL EXPERIENCE

03/2018 – 07/2022 **Freelance,** Marketing Consultant

- Researched, executed, and evaluated email, social, SEO, and paid media campaigns
- 8-month software project manager contract leading client-developer relationship

09/2015 – 03/2018 **Gitwit Creative,** Marketing Campaign Director

- Hired and led a team of strategists to sell, execute, and analyze client campaigns
- Assisted founders in developing internal processes as the team grew from 12 to 25

🎓 EDUCATION

08/2020 – 12/2022 **Launch School,** Software Engineering & Full-Stack Web Development

09/2011 – 05/2014 **University of Tulsa,** B.S. Business Administration & B.A. Spanish Language

🧠 SKILLS

Back End
Node.js, Express, Ruby, Golang, SQL, PostgreSQL, RESTful APIs, GraphQL, Sinatra

Front End
JavaScript (ES6), React, HTML, CSS, jQuery, Handlebars

Technologies
Git, GitHub, Docker, Bash, Terraform, DigitalOcean (VPS), AWS (EC2, Fargate, ECS, ECR)