

Matthew Joseph Malane

Software Engineer

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Technical Projects

Capstone Project - Nexus, <https://nexus-graphql.github.io/> ✉

09/2022 – 12/2022

Co-Creator, Software Engineer

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 technical case study and led a presentation of the project to a group of 50+ attendees. Read the case study and watch the presentation: nexus-graphql.github.io ✉

Launch School

2020 – 2022

- Multiple years attending a mastery based education program focused on the fundamentals of software engineering.
- Developed open-source software using Node.js, Ruby, PostgreSQL, React, HTML, and CSS.
- Selected Projects:
 - RequestCloud - A web application for receiving and debugging webhooks. (Node.js/Express, React, MongoDB, PostgreSQL, Digital Ocean Droplet)
 - Airline Routes - Interactive Map for viewing and filtering airline routes. (React)
 - Todos - Todolist tracker (Node, Express, Javascript, Handlebars, HTML, CSS)

Skills

Backend

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

Frontend

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

Other

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

Education

Launch School, *Software Engineering & Full-Stack Web Development*

2020 – 2022