

# Matthew Malane

## Software Engineer

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### Technical Projects

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**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](https://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, JavaScript, 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

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#### 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

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

2020 – 2022