Gene Phelps

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SUMMARY

Outgoing, detail-oriented, UNC certified software developer. Trained in the latest technologies with experience building full-stack applications from scratch. My passion is working with technology that betters the lives of the people who use it by writing clean, concise, and scalable code. Strong interpersonal communication and teamwork skills developed through team projects at the UNC coding bootcamp and being a retail manager for over two years.

SKILLS

- Languages (**JavaScriptES6; GraphQL; CSS**; **HTML5; Sequelize; Git**)
- Databases (**MongoDB**; **MySQL; MongoDB Atlas**)
- Applications (**GitHub; Git Bash; Insomnia; Heroku**)
- Development Frameworks (**React.js**)
- Tools (**Express.js; Node.js; JQuery; Bootstrap; OAuth; Apollo Server; Apollo Client**)
- Testing (**Jest**)
- Soft Skills (**Interpersonal Communication; Teamwork; Team Building; Coaching**)

EDUCATION

University of North Carolina at Chapel Hill, NC — *Full Stack Web Development Certification*

July 2021

A 24-week intensive program focused on gaining technical programming skills in full stack web development. Curriculum includes HTML5, CSS3, JavaScript, JQuery, Bootstrap, MySQL, GraphQL, MongoDB, Express.js, React.js, Node.js, Heroku, Git, and API's.

North Carolina State University, Raleigh, NC — *Bachelor of Arts in History*

May 2019

Projects

Tiny Town | **Repo:** https://www.github.com/Gpphelps/tiny-town

Summary: Tiny Town is a user experience where users with an account can create neighborhoods that are then named, and placed in a shared space with other user's neighborhoods forming an interconnected city. Tiny town is a **MERN Stack** application built on a **MongoDB** and **MongoDB Atlas** back end on a **Node.js server** that uses **GraphQL** queries and mutations to store and retrieve user data and the building data. **Apollo Server Express** is utilized to define the **GraphQL schema**. Data State is managed with **Apollo Client**. Tiny Town makes use of **React.js** for the front end development framework, and hard coded **CSS** for the user interface. User Authentication is handled by the **OAuth JSON Web Tokens** to ensure that only authorized

users are allowed to add a neighborhood to the city. The **Three.js** library is used to build and manipulate the canvas upon which Tiny Town is displayed; including the buildings and roads. **Blender** was used to produce the 3D models that were then imported to Three.js as .gbl files. Tiny Town is hosted on **Heroku**, and set up with an **automatic deployment pipeline** for ease of developer production.

Field of Dreams | **Repo:** https://www.github.com/Gpphelps/field-of-dreams

Summary: Field of Dreams is a full stack application built with a **Node.js** server around the **MVC** design paradigm that allows users to design their own flowers based on a set of manipulatable parameters, and place their created flowers on a shared field with the flowers of other users. Field of Dreams uses a **MySQL** database to store and retrieve user and flower data, and **RESTful API** controllers to exchange said data. **Sequelize** was used as the **ORM** to map objects to the MySQL database. **Handlebars.js** was utilized as the front end views. The user interface featured hard coded **CSS**. User login and logout functionality was handled using **session cookie authentication**, and the **P5JS** library was used to animate the created flowers. Field of Dreams is hosted on **Heroku**, and uses **JawsDB** as its cloud database.

GraphQL Book Search Engine | **Repo:** https://github.com/Gpphelps/graphql-book-search-engine

Summary: The GraphQL Book Search Engine is a **MERN Stack** application that utilizes the **Google Books API.** It allows users to search for and save any book in the Google Library and save them to their own personal profile on the application. The application was refactored to use **GraphQL** queries and mutations instead of RESTful API calls to exchange data to the **MongoDB** backend. **Apollo Server Express** is utilized to define the **GraphQL schema**. Data State is managed with **Apollo Client**. The search engine uses **React.js** as the front end development framework, and is hosted on **Heroku**.

EXPERIENCE

The Chocolate Cellar, Sanford, NC — *General Manager*

May 2019 - PRESENT

- Used WordPress to design https://www.thechocolatecellarshop.com/
- Manage 4 employees; responsible for recruiting, coaching, training, and scheduling staff.
- Effective communicator and presenter; conveying information through written and verbal contact with customers and team members.
- Maintain timely and accurate financial reporting, including accounts payable and receivable.
- Redesigned inventory system for the entire store including 200+ wine and beer, 40+ truffles, and our candy boxes.