# Mark Charles Smith

Software Engineer

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## TECHNICAL SKILLS

JavaScript (ES6+) | TypeScript | React (Hooks, Router, Context, Testing Library) | Redux | Redux Toolkit | Node.js | Express | HTML | CSS | SASS | SQL/NoSQL databases | GraphQL | Webpack | Git | GitHub | Material-UI | OAuth | JWTs | Jest | Docker | Heroku | AWS

## EXPERIENCE

**SQuriL (Open-Source Product)** | Software Engineer | *Dev tool for simple conversion of Postgres schemas to GraphQL* **2022-present**

- Created a GraphQL developer tool that auto generates type definitions and resolvers from PostgreSQL schemas to be implemented in Node.js and TypeScript compatible environments, saving engineering time
- Employed React to allow for quick rendering and reusability of components displaying complex GraphQL schemas, and to promote codebase consistency, accelerating dev velocity
- Integrated TypeScript to strengthen code integrity, identify and reduce runtime errors in development, make it easier to onboard new devs and encourage other engineers to contribute to the codebase
- Leveraged Material-UI component library to present a trusted visual language to users and facilitate ease of integration with React components, utilizing theme-setting functionality to develop light/dark mode styling, and promote accessibility
- Implemented OAuth to create secure and convenient user authentication flow which optimizes UX and persists user sessions while eliminating the need to store sensitive information
- Utilized Node.js/Express middleware that introspects the PostgreSQL database structure and automates the generation of GraphQL schemas, eliminating the need to manually write repetitve code for multiple codebases
- Used PostgreSQL to leverage ACID compliance to preserve the GraphQL template predictability and accuracy
- Configured Jest mocks to create a testing suite for 100% of all key application components, incorporated React Testing Library to ensure successful render on page load and GUI functionality for schema containers, URI address input, and stored schemas

**MCS Designs** | Web Developer                                                                                                    **2016-present**

- Designed and maintained websites with responsive UX/UI using HTML/CSS, created comprehensive navigation, prioritized site accessibility, and provided components to optimize SEO using Google XML Sitemaps for indexing

## OPEN SOURCE PROJECTS

**GitGood** | *Software engineer-focused learning tool that allows storage of online resources in customizable categories*

- Architected the frontend of codebase in React using hooks to abstract away logic from functional components, and built a UI which dynamically displays data for user-friendly interaction
- Deployed an Express server utilizing five types of customized middleware, routing, and error handling to manage a scalable volume of users to handle different HTTP requests to endpoints for topic and subtopic editing
- Designed and managed a secure, flexible PostgreSQL database to store sensitive relational login and user input data

**UpNotes** | *E-commerce platform for buying and selling of study notes*

- Leveraged Redux Toolkit to architect scalable frontend utilizing Async Thunks to allow asynchronous activity while maintaining the integrity of the store
- Employed PostgreSQL database for storage of sensitive financial data with complex relationships between users, notes, and transactions

## PUBLIC TALKS

**Blockchain for Developers** | Single Sprout Software Engineering Speaker Series

- Discussed structure and four properties of blockchain, exploring the diversity of decentralized applications devs can build

## EDUCATION

**University of Colorado-Boulder** (MM) *Summa cum laude*
**Guilford College** (BA) *Highest honors*