

Michael Scharf

Software Engineer

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Profile Summary

- Software Engineer experienced in building and deploying full stack solutions and well versed in Object-Oriented Programming (OOP).
- Full-stack developer with a strong command of languages including JavaScript, HTML, CSS and SQL. Proficient in designing UIs with React, writing server-side code and building APIs, and manipulating SQL & NoSQL databases. Solid understanding of Authentication, Security, and version control.

Education

University of California, Irvine

Full Stack Web Development Certificate

Irvine, CA, May-Jul. 2021

University of California, Davis

B.Sc. in Biochemistry and Molecular Biology

Davis, CA, 2012-2016

Technical skills

Languages: JavaScript, SQL, HTML, CSS

JavaScript stack: Superset: TypeScript / **FE Framework:** React / **Libraries:** Redux / **Back-end:** Node.js, Express.js, GraphQL

Databases: SQL: MySQL / NoSQL: MongoDB

Projects Experience

Zap Away Bugs

Jul. 2021

- Owned a full software development cycle by conceptualizing, designing, implementing, testing and maintaining a bug tracking application with the MERN stack, enabling users to create profiles, projects, and reference issues.
- Decided on requirements and specifications, and documented architecture, features and technologies in a clear and concise design document allowing for faster and easier implementation.
- Designed the website's user interface, by crafting an engaging user experience with React as a front-end framework, allowing for dynamic rendering of modern UI components.
- Architected a back-end connecting a Node.js/Express server to a MongoDB database, choosing the NoSQL paradigm to optimize for future scalability and flexibility.
- Allowed for user authentication thanks to the implementation of a login feature leveraging the Passport npm package with JSON Web Token.

tabAngel.io

May 2021 - Jul. 2021

- Designed and implemented a full-stack web application, allowing guitarists to submit and read tablatures.
- Crafted an intuitive user interface with HTML, CSS and JavaScript, allowing users to query & post tabs.
- Built an Express server on Node.js, for rapid scalability and implementation by using JS on both sides of the stack.
- Implemented Passport & JWT-based authentication.
- Utilized MySQL as a reliable and predictable Relational Database Management System, wrote schemas and designed an API allowing users to perform CRUD operations on post data.

dumpStar.io

Sep. 2022 - Oct. 2022

- Conceptualized and delivered a web-based application where users can store links to websites utilizing a folder structure.
- Coded using best practices of HTML5, key & advanced functionalities of CSS3 (Flexbox, Grid, animations, CSS variables and Sass), ensuring responsiveness and optimizing for accessibility and performance.
- Utilized React Hooks and Redux for optimal performance and scalability.

Professional Experience

Public Impact [Web Application Developer](#)

Carrboro, NC (Remote) Nov. 2022 - Present

- Learned and started developing in Drupal within a month of hiring. Currently in the testing phase of an updated user profile.
- Developed an internal full stack application using Express, Node.js, and the Google Drive API that allows team members to share folders with clients.
- Overtook the responsibility of sending out a personalized weekly email to hundreds of clients using Google Sheets.

2U Inc [Teaching Assistant](#)

Irvine, CA (Remote) Nov. 2021 -

Nov. 2022

- Planned and delivered lectures to students, teaching fundamental programming concepts during live coding classes.
- Conducted engaging lectures, delivering comprehensive lessons on HTML, CSS, JavaScript, React.JS, MongoDB, MySQL, Node.js, Express and ORMs. Taught version control with Git, and deployment with Heroku.

