

JOSH SARNA

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FULL-STACK WEB DEVELOPER

As a web developer with a physical science background, I bring to coding an analytical mindset ideal for problem solving and efficiency. I enjoy creating algorithms and incorporating mathematical tools into things I create. In my experience, software development and math both transcend disciplinary categorization. There's nothing that can't be better understood through math, and there's nothing that can't be furthered and improved by JavaScript.

Skills: Ruby, Rails, JavaScript, VueJS, Vuex, React, Redux, Angular.js, Node.js, TypeScript, Bootstrap, Bulma, Python, Django, Java, PHP, Wordpress, Pressable, Visual Basic .NET, HTML/CSS, SQL, Postgres, MySQL, R, MATLAB, Wolfram Mathematica, APIs, OOP, TDD, MVC Frameworks, Git, Agile, Heroku, and AWS

EXPERIENCE

Freelance Web Developer | 2018 - Present

- **LawnNinja:** Built a gig-booking app centered around lawn work, providing a platform through which residents can post jobs and providers can claim them, record their work, and invoice residents; this is built using PostgreSQL, Rails, React, React Native, and the Stripe API and is an ongoing Agile project
- **Backyard Organic Farms:** Built a produce delivery subscription website, the first version of which was made using Wordpress; a subsequent edition uses Rails, Vue, Postgres, and the Square API
- **Ed Sarna:** Built a personal website for a writer, using PostgreSQL, Rails, and VueJS; this includes an extensive admin interface and email notifications sent with SendGrid

Actualize, Software Engineer & TA | 2018 - Present

- **TAship:** Teach Vue.js lessons to a live online class; assist students in developing their programming skills by providing supplementary instructional material, troubleshooting applications, and asking follow-up questions on coding techniques; grade student assignments through Github code review
- **Middle Maps:** Built an app that allows a user to search locations in Middle Earth (setting of Lord of the Rings) and to find routes between locations; learned Vue2-Filters, jsGraphics, and Heroku and wrote an efficient shortest-route algorithm in Ruby; the backend of this app is built on Rails with a PostgreSQL database, and the front-end is built on VueJS
- **Bootcamp:** Completed the three-month intensive Actualize bootcamp and learned Ruby, Rails, Javascript, VueJS, HTML, and CSS; learned how to build front-end, back-end, and full-stack apps; gained the ability to learn new frameworks and technologies quickly

Creative Support, Supported Living Specialist | 2015 - 2018

- Supported clients with intellectual and developmental disabilities in learning Java and Python
- Modernized company system by creating online spreadsheets for tracking hours to supplement outdated paper system until payroll tracking was transitioned to a fully-computerized system

OPEN SOURCE CONTRIBUTIONS

- **joshsarna/fellowship:** a ruby gem with algorithm helper-methods, including route-finding methods to minimize distance or number of steps
- **joshsarna/utsless:** a ruby gem that replaces `puts` statements with `p` statements at runtime
- **joshsarna/red_book:** a ruby gem that prints random Lord of the Rings quotes to the rails server

EDUCATION

University of California at Los Angeles, Bachelor of Science in Physical Chemistry | 2017

- Mathematics Minor