

# Katherine Ebel

## Software Engineer

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### PROFESSIONAL EXPERIENCE

#### Freelance Software Engineer, Self-employed

2019 – present


Green Cove Springs, USA

- Utilized *React*, *Node.js*, and *Heroku* to develop, design, and deploy a personal website for a local entrepreneur.
- Integrated with Mailgun API for email support and configured custom domain.
- Provide ongoing maintenance and content updates for the site.

### TECHNICAL PROJECTS

#### Skopos, Co-Creator, Software Engineer

2022

Open-source API monitoring tool designed for testing multi-step API workflows and running collections of tests in parallel. Comprehensive case study at (<https://skopos-api-monitoring.github.io>) 

- Collaborated remotely with a team of engineers using *Slack*, *Zoom*, and *GitHub*.
- Led the design and development of UI using *React*, *TypeScript* and *TailwindCSS* adding a drag-and-drop feature to allow for intuitive re-ordering of API tests.
- Improved code quality by adding tests to UI components using *Jest* and *React Testing Library*, and validating form inputs using *Formik* and *Yup*.
- Leveraged Apollo Client's in-memory cache to manage application state, and get immediate responses to GraphQL queries for already-cached data without having to make extra network requests.
- Improved site usability and page loading speed by adding pagination for queries that return large amounts of data.
- Implemented custom middleware to integrate GraphQL API with AWS *EventBridge* and *SNS* using AWS SDK enabling key functionality of automated test execution and sending notifications.
- Simplified data modeling, interactions, and migrations using *Prisma* ORM.
- Led development of CLI using AWS CDK, and published an npm package to automatically deploy services to a user's AWS account.

### SKILLS

#### Front End

HTML/CSS, Bootstrap, Styled Components, Tailwind CSS, JavaScript/TypeScript, React/Redux, NextJS, Gatsby

#### Back End

Node.js, Express, Ruby, Rails, Sinatra, RESTful APIs, GraphQL, PostgreSQL, MongoDB

#### Other

AWS (CDK, Lambda, S3, ECS, RDS), Docker, Git, Linux

### EDUCATION

#### Software engineering & full-stack web development, Launch School

2021 – 2022

#### Associates, Valencia College

1997 – 1999

#### Associates, Brigham Young University-Idaho

1994 – 1996