

Katherine Ebel

Software Engineer

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📍 Green Cove Springs, Florida

📁 TECHNICAL PROJECTS

2022

Skopos, Co-Creator, Software Engineer [🔗](#)

Skopos is an open-source API monitoring tool designed for testing multi-step API workflows and running collections of tests in parallel.

- Collaborated remotely with a team of engineers using *Slack*, *Zoom*, and *GitHub*.
- Led the design and development of UI using *React* and *TailwindCSS*.
- Implemented drag and drop feature enabling an intuitive way to re-order API tests in the UI.
- Added tests to key components in UI using *Jest* and *React Testing Library*.
- Validated form inputs in UI using *Formik* and *Yup* to prevent submitting invalid data.
- 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 increased page loading speed by adding pagination for queries that potentially return a significant amount of data.
- Enabled auto-scaling of backend components using *AWS ECS*.
- 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*.
- Published npm package to automatically deploy services to a user's AWS account.
- Co-authored a comprehensive case study (<https://skopos-api-monitoring.github.io>) [🔗](#) on the design decisions encountered while developing the project, and the problems Skopos solves.

2022

WireSnoop, Full-stack application to capture and inspect web hooks [🔗](#)

- Developed using *React*, *Node.js*, *Express*, *MongoDB*, *PostgreSQL*
- Used *Socket.IO* for real-time updates to *React UI*

2022

JobHunt, Full-stack application that tracks job application status [🔗](#)

- Developed using *React*, *Redux*, *Styled Components*, *Node.js*, *Express*, *MongoDB*
- Implemented Authentication using *JWT*

🧠 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

2021 – 2022

Launch School, Software engineering & full-stack web development [🔗](#)

1997 – 1999

Valencia College, Associates

1994 – 1996

Brigham Young University-Idaho, Associates

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