

Joshua Rabi

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<https://Github.com/JoshuaRabi>

<http://JoshuaRabi.com>

SKILLS

- **Languages & Frameworks:** TypeScript/JavaScript(React, Redux, Node.js, Jest), Go, Python(Flask), HTML, CSS
- **Technologies & Tools:** GraphQL, AWS, Docker, PostgreSQL, MongoDB, CI, Git, Selenium, Puppeteer, Yarn/npm, Linux

EXPERIENCE

• Homebound

Software Engineer

January 2020 - September 2021

- Used TypeScript, React, and GraphQL to develop an internal task management app for construction teams in order to increase their collaboration and productivity
- Wrote large-scale data migrations using PostgreSQL and Knex in order to keep data consistent and clean across the app
- Contributed to internal component libraries, convenience utils/wrappers around Jest, and an ORM in order to increase team delivery/iteration speed
- Used AWS Lambda to schedule and automate tasks for construction teams

PROJECTS

• Spresso Search

Visual metasearch engine with inline reader view

<https://github.com/JoshuaRabi/spresso-search>

- Featured in MyBridge's React.js Open Source of the Month (number 8 on the list) - <https://1n.pm/artcl>
- Implemented server-side gzip compression for ~ 50 % faster response times
- Built Express backend that scrapes Google search results, page metadata, and screenshots in response to user queries
- Developed a text-outline feature that extracts & displays the main body of text from a site
- Wrote integration tests with Mocha, Chai, and Puppeteer
- Used Travis CI to automatically run tests and report build status after pushing code
- Used Docker alongside Heroku Container to enable automatic builds for each deployment
- Technologies Used: TypeScript, React, Redux, Express, Mocha, Chai, Puppeteer, Docker, Travis CI, Heroku

• PicTheme

Converts images into code editor themes by using their color palettes

<https://github.com/JoshuaRabi/pictheme>

- Made a randomization feature that randomizes how each color is allocated to keywords/variables (uses cryptographically strong random numbers)
- Wrote logic that programmatically generates themes for VS Code and Sublime on the fly
- Used the Imgur api to link to user-uploaded images in a programmatically generated README file
- Made AJAX calls to Express backend with Axios & handled partial page updates with Redux & React
- Used Travis CI to automate testing, and ensure that code remains error-free after pushing modifications
- Used Docker alongside Heroku Container to enable automatic builds for each deployment
- Technologies Used: TypeScript, React, Redux, Express, Docker, Heroku, Mocha, Chai, Travis CI, Puppeteer

• Omnus

Siri-inspired personal assistant/knowledge app

<https://github.com/JoshuaRabi/Omnus>

- Enabled app to answer user queries in a human fashion using the Wolfram Alpha API
- Developed a voice input feature using the Native Speech Recognition API, allowing users to make voice queries in a similar fashion to Siri
- Enabled app to speak results back to the user by using the native Speech Synthesis API
- Wrote logic to decide whether to answer the user with a text or image-based response
- Wrote Unit Tests using Mocha, Chai, and Supertest, wrote integration tests using Selenium WebDriver
- Technologies Used: React, Express, Docker, Supertest, Mocha, Chai, Heroku