

Joshua Rabi

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<https://github.com/JoshuaScript>

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SKILLS

- **Languages & Frameworks:** JavaScript/TypeScript(React, Redux, Node.js, Express, Mocha, Chai), Python(Flask, Bottle), HTML, CSS
- **Technologies & Tools:** AWS, Docker, PostgreSQL, MongoDB, Travis CI, Git, Selenium WebDriver, Puppeteer, Yarn/npm, Heroku, Linux

PROJECTS

• Spresso Search

Visual metasearch engine with inline reader view <https://github.com/JoshuaScript/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/JoshuaScript/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/JoshuaScript/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

• Firefox Color Gallery

An upload/sharing site for Firefox Color themes <https://github.com/JoshuaScript/Firefox-Color-Gallery>

- Used a raw Node.js HTTP server to handle the uploading of theme data to MongoDB, and to serve static files
- Used Selenium Webdriver along with a Node.js image processing module to automate the process of screenshotting themes, converting them to buffers, and cropping them
- Deployed site on AWS EC2 instance
- Technologies Used: React, Redux, Node.js, MongoDB, Selenium WebDriver, AWS

• Palette Bot

Reddit bot that generates color palettes for images https://github.com/JoshuaScript/Palette_Bot

- Forked open-source palette library and modified it for better interoperability with the bot
- Enabled the bot to interact with users by using the Reddit API
- Enabled automatic Imgur uploads via the Imgur API
- Deployed bot on AWS EC2 instance & Set up Linux crontab that runs the bot every 5 minutes
- Technologies Used: Python, AWS