

# Joshua Rabi

<http://github.com/JoshuaScript>

<http://JoshuaRabi.com>

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## SKILLS

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- **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

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- **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](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