Joshua Rabiu

http://github.com/JoshuaScript

http://JoshuaRabiu.com

Email : Joshua.Rabiu@gmail.com

Phone : (864) 999-5024

SKILLS

- **Languages** & **Frameworks:** JavaScript/TypeScript(React, Redux, Node.js, Express, Mocha, Chai), Python, HTML/CSS
- **Technologies** & **Tools:** AWS, Docker, 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
  - Wrote integration tests with Mocha, Chai, and Puppeteer
  - 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