

Syed AbuTalib

Software Engineer · U.S. Citizen

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Skills

Programming

Java, Ruby, Python, JavaScript, TypeScript, Bash, C, C++, Rust, R, SQL, HTML, CSS

Frameworks & Libraries

Spring Boot, JUnit, Mockito, Ruby on Rails, Django, Flask, Angular, React, Vue, Jasmine, Node, Express, Jest, Tailwindcss

Tools

AWS, Git, Docker, Heroku, Elasticsearch, Linux, Agile, Jira

Experience

Liberty Mutual Insurance

Boston, MA

ASSOCIATE SOFTWARE ENGINEER

Jan. 2021 - Present

- Simplified unit testing by integrating the Jasmine testing framework, capturing bugs before deployment
- Implemented a document repository using Django and React, saving 100s of analyst hours spent searching and requesting access to private reports
- Expedited cross-platform development by containerizing applications with Docker, reducing local build times from minutes to under 20 seconds
- Provisioned cloud application resources using AWS Cloud Development Kit, creating reusable components in the process

Access My Research

Dallas, TX

SOFTWARE ENGINEER INTERN

Sept. 2020 - Dec. 2020

- Facilitated software delivery cycles by containerizing applications with Docker, decreasing the build process from minutes to under 20 seconds
- Pioneered the process of simultaneously accessing 3+ research database APIs by writing Python scripts to create and run concurrent processes
- Accelerated search result response times from 2 seconds to 300 milliseconds by integrating Elasticsearch to index research papers

Liberty Mutual Insurance

Indianapolis, IN

SOFTWARE ENGINEER INTERN

May 2020 - Aug. 2020

- Optimized searching in a high volume internal service application by conducting surveys on current users and analyzing and comparing employee job types with common searches, implementing the results on the webpage
- Automated the process to convert insurance form data into Excel spreadsheets using TypeScript, saving an average of 30 minutes per sheet
- Unified Diversity and Inclusion groups data into a single dashboard using React and Flask to crawl internal calendar pages and sanitize event data

Kalkomey Enterprises, LLC

Dallas, TX

APPLICATION DEVELOPER INTERN

June 2018 - Dec. 2019

- Collaborated with other interns to design and implement a React Native application with a Rails back end for the state of Nevada
- Architected the process to make changes to a locator API by creating an online admin interface written in React

Education

The University of Texas at Dallas

Dallas, TX

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (CUM LAUDE)

Dec. 2020

Projects

FireWatch

Flask, React

WEB APPLICATION

github://FireWatch

- Estimates the speed and location of the California wildfires using Twitter APIs to find tweets associated with wildfires and keeping track of their geolocation over time
- Used Google Maps APIs to display a heatmap using data created by stochastic processes such as random walks

URL Shortener

PostgreSQL, Ruby, Ruby on Rails

WEB APPLICATION

heroku://urlke

- Minimalistic URL shortener proof of concept designed to be easily replicated for internal use
- Uses PostgreSQL for the database and Heroku for a platform

Achievements

- 2020 **Round 2 Qualifier**, Code Jam
- 2019 **Round 2 Qualifier**, Hacker Cup
- 2019 **3rd Place Overall**, HackTX Hackathon
- 2018 **3rd Place Overall**, Hack-The-Bully Hackathon

Google

Facebook

UT Austin

Tacky Box