

Syed AbuTalib

Software Engineer

EXPERIENCE

LIBERTY MUTUAL INSURANCE | ASSOCIATE SOFTWARE ENGINEER

January 2021 – Current | Boston, MA

- Simplified unit testing by integrating the Jasmine testing framework, capturing 30% more bugs before deployment
- Implemented a document repository using Django and React, saving 100s of analyst person-hours spent searching and requesting access to private reports
- Reduced local build times by over 80% and expedited cross-platform development by containerizing applications with Docker
- Provisioned cloud application resources using AWS Cloud Development Kit, creating reusable components in the process

ACCESSMYRESEARCH | SOFTWARE ENGINEER INTERN

September 2020 - December 2020 | Dallas, TX

- 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 documents

LIBERTY MUTUAL INSURANCE | SOFTWARE ENGINEER INTERN

May 2020 - August 2020 | Remote

- 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 tabular form data into Excel spreadsheets using TypeScript, saving 1000s of person-hours per year
- 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 | APPLICATION DEVELOPER INTERN

June 2018 - December 2019 | Dallas, TX

- Collaborated with other interns to design and implement a React Native application with a Rails backend
- Architected the process to make changes to the locator API by creating an online admin interface using React

PROJECTS

FIREWATCH | LEAD BACKEND DEVELOPER

Python, Flask, React

- 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

CONTACT

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in syed-abutalib

SKILLS

PROGRAMMING

Proficient:

Java, Ruby, Python, JavaScript, TypeScript, HTML, CSS

Experienced:

Bash, C++, R, SQL

Familiar:

Rust, Assembly

LIBRARIES/Frameworks

Proficient:

Spring Boot, JUnit, Mockito, Ruby on Rails, Django, Django REST framework, Flask, React, Jasmine, Jest, Tailwindcss

Experienced:

Angular, Next.js, Vue.js, Node.js, Express.js

TOOLS/PLATFORMS

AWS, Git, Docker, PostgreSQL, Heroku, Elasticsearch, Linux, Agile, Scrum, Kanban, Jira

EDUCATION

UT DALLAS

BACHELOR'S IN COMPUTER SCIENCE

December 2020 | Dallas, TX

Cum. GPA: 3.7 / 4.0

Cum Laude

AWARDS

2020	R2 Qualifier Code Jam
2019	R2 Qualifier Hacker Cup
2019	3 rd HackTx Hackathon
2018	Academic Excellence
2018	3 rd HTB Hackathon