

Akib Maredia

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Education

UNIVERSITY OF FLORIDA | GAINESVILLE, FL

AUG. 2019 - DEC. 2020

Master of Science in Computer Science | GPA: 3.79

UNIVERSITY OF MUMBAI | MUMBAI, INDIA

AUG. 2015 - MAY 2019

Bachelor of Engineering in Computer Engineering | GPA: 8.07

Experience

AMAZON.COM | SEATTLE, WA

MAY 2020 - JUL. 2020

Software Development Engineering Intern

- Created REST API endpoints in Java SpringBoot for a particular automation settings and corresponding React component which accelerated the workflow by at least **10 seconds**
- Handled application side effects including and not limited to asynchronous activities API calls through Redux sagas
- Created a scalable parent React component in the form of sub-navbar that hosted sub components for better user experience
- Performed unit and manual testing on the React components and Redux sagas
- Provided training and resource materials for users depending on the platform(seller/vendor central) and user subscription type in the sub-navbar component for better user reachability

JAVA SPRINGBOOT, TYPESCRIPT, REACT JS, REDUX

Skills

LANGUAGES

Java • Python • CSS • HTML • SQL • JavaScript • F# • TypeScript

DATABASES

MongoDB • MSSQL • Oracle DB

METHODOLOGIES / PRACTICES

Scrum • Test Driven Development • API Driven Development

FRAMEWORKS

Node.js • React • Redux • Java SpringBoot

SOFTWARE / VERSION CONTROL

Terminal • Git

CLOUD

Heroku

Projects

TWITTER SIMULATOR | [GITHUB.COM/AKIBMAREIDIA/TWITTER-SIMULATOR](https://github.com/AkibMaredia/Twitter-Simulator)

- Simulated an auto-scalable Twitter using Akka Actor model with functionalities like registration, tweet, follow, mentions, hashtags, unfollow, live feed and search.
 - Simulation supported **10K** simultaneous users with **217** tweets per second
 - **Second part** of this project designed and developed a web application supporting the same functionalities using REST API back-end. Implemented websocket protocol for delivering live feed between clients-server and making new users available for following.
- F#, AKKA ACTOR MODEL, .NET CORE, SUAVE, HTML, CSS, JAVASCRIPT, JQUERY

PASTRY - P2P ROUTING | [GITHUB.COM/AKIBMAREIDIA/PASTRY-PROTOCOL](https://github.com/AkibMaredia/Pastry-Protocol)

- Designed and implemented Pastry - a distributed, scalable object location and routing substrate which supports data sharing across wide peer-to-peer applications
 - Performed load testing with **262K** peers participating in the network and achieved an average of **7 hops** per transmission to reach the destination
- F#, AKKA ACTOR MODEL, .NET CORE

RISING CITY | [GITHUB.COM/AKIBMAREIDIA/RISINGCITY](https://github.com/AkibMaredia/RisingCity)

- Implemented Red Black Tree and Min heap data structures to track constructions of buildings
 - Min heap was used to store the buildings ordered by execution time and red black tree was used to store building ordered by building number
 - Developed synchronization and priority scheduling logic
- JAVA

MOVIE TREND ANALYSIS

- Followed an entire System Development Life Cycle.
 - Handled and analyzed **354K tuples** of movie data to find trends w.r.t genres, budget, profit, ratings, etc
 - Displayed analysed trends in the form of graphs, charts and histograms using Chart.js
- CHART.JS, JAVASCRIPT, JAVA SPRINGBOOT, SQL, ORACLE DB