Megharth Lakhataria

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Education

Northeastern University, Khoury College of Computer Sciences   Boston, MA
Masters in Computer Science **GPA: 3.83/4.0**   Sep 2019 - Present
Relevant Coursework: Web Development, Scalable Distributed Systems, Algorithms   Expected Graduation: Dec 2021

Gujarat Technological University   Gujarat, India
Bachelors of Technology in Information Technology **GPA: 9.17/10.0**   Aug 2015 - May 2019
Relevant Coursework: Software Engineering, Data structures

Skills

Programming Languages	Javascript, C, C++, Java, Python, HTML5, CSS3
Databases	SQL, Postgres, MySQL, MongoDB
Libraries & Frameworks	React.js, Redux, Vue.js, Vuex, Node.js, ExpressJs, Elixir, Handlebars
Tools	GIT, Agile (Scrum), Nginx, Visual Studio Code, Heroku

Experience

Voda.ai, Boston
Full stack intern   August 2020 - Jan 2021, May 2021 - Present
- Revamped the UI to give a cleaner aesthetics to the app
- Developed complex components that added value to the USP of the application and hence led to an increase in sales
- Optimized the performance of the platform by 70%, as measured by the A/B testing strategy, by utilizing the client-side queries from ArcGIS
- Improved the security of the application by 20% by adding JWT authentication and dynamically generating sensitive data from the backend
- Restructured the majority of code to remove inconsistencies and establish a cleaner, more readable codebase that led to a 29% decrease in initial loading time

Northeastern University, Boston
Graduate Teaching Assistant, CS 5600 - Web Development   May 2020 - August 2020
- Conducted office hours to help students with their doubts and mentor them on topics related to web development
- Assisted professor with grading assignments and classroom logistics

Alian Software, Anand, India
Web dev intern   Jan 2019 - May 2019
- Developed content management system and inventory management system alongside the integration of Amazon Marketplace API increasing on-time order fulfilment rate by ~15%
- Created a customer management system providing required information to a customer representative at centralized place improving customer response time by 9%
- Extracted metadata from the image and converted GeoTIFF image into web-optimized PNG images reducing rendering time of image on Google Maps by 35%

Projects

Distributed Chat App *MERN*
- Deployed 5 replicated node servers to scale a simple chat application
- Executed distributed algorithms such as PAXOS, Chandy-Lamport snapshot algorithm and fault tolerance

Bucket Allocator *C, linux & XV6 systems*
- Engineered a custom bucket allocator that can out-perform both XV6 and linux's default allocator
- Created 64k thread safe buckets structure to allocate, re-allocate and free the memory

Checkers *React.JS, Elixir, CSS3, Postgres SQL*
- Implemented a multiplayer Checkers web-game with chat-room and game-room support
- Features multiple games, game backups and minimal lag using Elixir genservers & sockets

Image Processing App *Swing, Java, Junit*
- Designed a MVC app that can generate images and process pre-existing or generated images
- Utilized k-means clustering of pixel and modification of its RGB channel to create different filters and color transforms

Leadership Experience

Developer Head
BVM Engineering College   Jul 2018 - May 2019
- Delegated tasks as well as evaluated individual deliverables by using scrum methodology to achieve maximum efficiency for every app developed throughout the year