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, Typescript, C, C++, Java, Python, HTML5, CSS3
Databases	SQL, Postgres, MySQL, MongoDB
Libraries & Frameworks	React.js, Redux, Redux-sagas, Vue.js, Vuex, Node.js, ExpressJs, Elixir, Handlebars
Tools	Git, AWS S3, AWS Lightsail, Highcharts, Agile (Scrum), Nginx, VS Code, Heroku

Experience

Voda.ai, Boston
Full stack developer intern   May 2021 - Sep 2021
- Devised a planning tool that dynamically generates top-priority projects for the customers to work with, which led to increase in product value and business development by 25%
- Replaced static files with dynamically generated and backwards compatible content that decreased the size of project by 99%
- Used Typescript in back-end to minimize the run-time errors by 70%
- Utilized Node.js streams to process large files in order to bring down memory consumption of the app by 50%
- Automated the tests using Cypress test suite which led in reduction of bugs in production by 80%
- Setup monitoring tests as a service on AWS Lightsail to lower the monitoring costs by 92.5%

Voda.ai, Boston
Full stack developer intern   Aug 2020 - Jan 2021
- 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 by 35%
- 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

Alian Software, Anand, India
Web dev intern   Jan 2019 - May 2019
- Programmed 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 moderating 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

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