

Megharth Lakhataria

Boston, MA · lakhataria.m@husky.neu.edu · (857) 869-4576 · github.com/megharth

Education

Northeastern University, Khoury College of Computer Sciences

Masters Computer Science **GPA: 4.0/4.0**

Relevant Coursework: Web Development, Computer Systems

Boston, MA

Sep 2019 - Present

Expected Graduation: Spring 2021

Gujarat Technological University

Bachelors of Technology Information Technology **GPA: 9.17/10.0**

Relevant Coursework: Software Engineering, Data structures

Gujarat, India

Aug 2015 - May 2019

Skills

Programming Languages	Javascript, C, C++, Java, Python, HTML5, CSS3
Databases	SQL, Postgres, MySQL, MongoDB
Libraries & Frameworks	Vue.js, Vuex, Elixir, Node.js, ExpressJs, React.JS, Redux, jQuery, Bootstrap, Laravel
	Socket.io, GSAP, Handlebars
Tools	GIT, Agile (Scrum), Nginx, IntelliJ IDEA, Visual Studio Code, Raspberry Pi, Inkscape, Heroku

Experience

Northeastern University, Boston

Graduate Teaching Assistant, CS 5600 - Web Development

May 2020 - Present

- Conducting office hours to help students with their doubts and mentor them on topics related to web development
- Assisting professor with grading assignments and classroom logistics

Alian Software, Anand, India

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

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

Social React.JS, Elixir, CSS3, Postgres SQL

- Built a social media website that suggests potential friends based on location and similar interests
- Used geolocation API, Mapbox, Facebook & Instagram API to establish the key elements

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

Eye Controlled Wheelchair Python

- Constructed a Raspberry Pi based prototype of eye controlled wheelchair which enables locomotion of wheelchair using the user's eye
- Gained ~95% accuracy in recognizing eye movements and actions by implementing algorithms from OpenCV library
- Latency as low as 20% was achieved by using L-293 H-bridge to send the instructions to the motors driving wheelchair

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