

Muhammed Aashiq Mohamed Ibramsha

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EDUCATION

University at Buffalo, The State University of New York

Master of Science in Computer Science and Engineering, CGPA: 3.9/4

Buffalo, NY

August 2021 – Present (Exp. Dec 2022)

Thiagarajar College of Engineering

Bachelor of Engineering in Mechatronics, CGPA: 8.4/10

Madurai, India

June 2015 – May 2019

EXPERIENCE

GrammaTech

Software Engineer Intern

Ithaca, NY

May 2022 – Present

- Implemented a Dark theme for the front-end application

OneDataShare

Research Project Assistant

Buffalo, NY

Feb 2022 – May 2022

- Handled support for a VFS transfer type, fixed numerous bugs, and cleaned up the front-end codebase

Facilio (Startup)

Full Stack Developer

Chennai, India

July 2019 – July 2021

- Devised web pages for an email-based ticket support system
- Implemented Estimation module with customization support
- Digitised paper-based vendor work permit flow
- Revamped and maintained history data import of sensor readings and modular data to database

Internship

January 2019 - June 2019

- Developed web pages for complete inventory management flow cycle starting from purchase request to return of used inventory

PROJECTS

Taco-DB | C++, abseil

May 2022

- Built mini database with implementation for components like Buffer Manager, Varlenpage, Heap file, and B+ Tree
- Programmed execution plan and states for various operators (Sort-merge join, Index nested loop join, selection, projection, aggregation, etc.) for Volcano model
- Tested the database with an optimized query plan for the TPC-H data set for Q3 & Q5 benchmark queries

Good Karma Coin (Git) | React, Solidity, web3.js

April 2022

- Created a cryptocurrency to ensure that donation towards charity reaches people in need rather than being swindled by evildoer
- Developed within 24hrs as a team of 4 during UB Hacking'22 and was awarded 'Best Blockchain Hack'

Text Chat App (Git) | C++, Socket programming

March 2022

- Created a CLI-based text chat application that uses socket programming(TCP) to transfer text messages
- Added support for P2P file transfer between clients

Lambda - Twitter search engine (Live) | Vue.js, Django, Solr, AWS

October 2021

- Collected more than 350k COVID-related tweets using Twitter API and evaluated sentiment analysis using Google Natural Language AI
- Built a search engine with advanced query filters and analytics
- Analyzed and visualized general populations attitude towards COVID, vaccine hesitancy, official handles influence on general masses, and correlation between tweet count with COVID cases

Pub-sub model for real estate info (Demo) | Vue.js, Flask, MySQL, Docker, Kafka, Firebase

September 2021

- Built a distributed pub-sub model using docker containers for real-time notification using web sockets
- Prototype model demonstrates horizontal scaling of the system by distributing the load to independent brokers running on a decentralized network connected to a Database

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C++, Java, SQL, HTML, CSS

Frameworks: React, Angular, Vue.js, Node.js, GraphQL, Spring, Flask, Django, Docker, Kafka, Solr, Sass

Developer Tools: Git, AWS, Firebase, VSCode