

Muhammed Aashiq Mohamed Ibramsha

(716) 748-9392 | Dallas, TX | muhammedaashiqtc@gmail.com | [linkedin.com/in/muhammed-aashiq](https://www.linkedin.com/in/muhammed-aashiq) | github.com/Aashiq25

EXPERIENCE

CodeSecure Inc., (Formerly GrammaTech)

Dallas, TX

Senior Software Engineer (prev. Software Engineer Intern)

May 2022 – May 2024

- Optimized SQL queries by adding triggers and indexes to database, achieving a **30x** reduction in query time
- Mentored interns, closed 100+ backlog bugs, responsible for 50+ MR reviews and maintained code quality
- Structured microservices and Angular components for new feature requirements
- Crafted a queue and cache solution utilizing MIN.IO Cloud storage to handle large-scale file exports
- Added dark mode support and enhanced responsiveness of front-end improving overall UI & UX

Facilio (Startup)

Chennai, India

Member of Technical Staff (prev. Intern)

January 2019 – July 2021

- Collaborated during early stage where app grew from 5 to 15+ modules and was responsible for design and development of 7+ modules (Estimation, Tenant Management and Service Management to name a few)
- Revamped and maintained historical data import, used for migrating **millions** of XLS/CSV sensor reading **records** to **database**. Boosted performance by 10x, handled enormous errors and eased usability
- Developed web pages and RESTful APIs for complete inventory management flow cycle from purchase to storage

TECHNICAL SKILLS

Programming: JavaScript, TypeScript, Java, Python, C++, SQL (PostgreSQL, MySQL), HTML, CSS (Scss, Sass)

Frameworks: Angular, React, Vue, Node.js, Express.js, GraphQL, Struts, Spring Boot, Django, Docker, Kafka, Solr

Other Tools & Libraries: Redux, Vite, Webpack, Tailwind, Git, AWS, GCP, Apollo, Hasura, VSCode, Jira, Figma

EDUCATION

University at Buffalo, The State University of New York

Buffalo, NY

Master of Science, Computer Science and Engineering, CGPA: 3.92/4

August 2021 – December 2022

Courses: Database Systems, Distributed Systems, Information Retrieval, Algorithms, Networks, Computer Security

Thiagarajar College of Engineering

Madurai, India

Bachelor of Engineering, Mechatronics, CGPA: 8.39/10

June 2015 – May 2019

PROJECTS

Lamda - Twitter search engine ([Git](#)) | *Vue.js, Django, Solr, AWS*

- Engineered a search engine with advanced query filters and analytics for more than **350k** COVID-related tweets collected using Twitter API and indexed data in **Solr** to provide relevant results
- Analyzed and visualized general populations attitude towards COVID, vaccine hesitancy, official handles influence on general masses and correlation between tweet with cases count

Pub-sub model for real estate info ([Git](#)) | *Vue.js, Flask, MySQL, Docker, Kafka*

- Created a model demonstrating horizontal scaling of PubSub system by distributing load to independent Kafka brokers managed using Zookeeper running on a decentralized network connected to a database

Good Karma Coin ([Git](#)) | *React, Solidity, web3.js*

- Prototyped a **cryptocurrency** to securely deliver funds to those in need, minimizing risk of exploitation
- Developed within 24hrs as a team of 4 during UB Hacking'22 and was awarded **Best Blockchain Hack**

MementoGC | *Java*

- Implemented Java **garbage collector** using MMTk framework with hybrid Generational copying and Mark-sweep design; analyzed performance with DaCapo and SPECjvm 2008 benchmark tests

Taco-DB | *C++, abseil*

- Built a **mini database** incorporating buffer manager, Variable length data page, and B+ tree
- Programmed execution plans and states for operators (Sort-merge join, Index nested loop join, Selection, Projection, Aggregation) and benchmarked performance using TPC-H Q3 & Q5 queries