Muhamed Aashiq Mohamed Ibramsha

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EXPERIENCE

CodeSecure Inc., (Formerly GrammaTech) <div align="right">Dallas, TX</div>

Software Engineer <div align="right">*February 2023 – Present*</div>
- Optimized GraphQL queries for dashboard by decreasing query cost by **50%** by batching SQL queries
- Structured multiple microservices and Angular components improving user interaction and developer productivity

Software Engineer Intern <div align="right">*May 2022 – December 2022*</div>
- Crafted a queue and cache solution utilizing MIN.IO Cloud storage to handle large-scale PDF file exports
- Added Dark mode support for the UI and stored user preference in Keycloak (IAM)

Facilio (Startup) <div align="right">Chennai, India</div>

Member of Technical Staff <div align="right">*July 2019 – July 2021*</div>
- Contributed during early stage where app grew from 5 to 15+ modules and was responsible for design and development for 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**. Improved performance by 20%, handled enormous errors and eased usability

Intern <div align="right">*January 2019 – June 2019*</div>
- Developed web pages for complete inventory management flow cycle from purchase request till delivery

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, C++, SQL, HTML, CSS
Frameworks: Angular, React, Vue.js, Node.js, GraphQL, Struts, Django, Docker, Kubernetes, Kafka, Solr, Scss
Developer Tools: Git, AWS, Firebase, VSCode

EDUCATION

University at Buffalo, The State University of New York <div align="right">Buffalo, NY</div>

Master of Science, Computer Science and Engineering CGPA: 3.92/4 <div align="right">*August 2021 – December 2022*</div>
Courses: Database Systems, Distributed Systems, Information Retrieval, Algorithms, Networks, Computer Security

Thiagarajar College of Engineering <div align="right">Madurai, India</div>

Bachelor of Engineering, Mechatronics, CGPA: 8.39/10 <div align="right">*June 2015 – May 2019*</div>

PROJECTS

MementoGC | *Java* <div align="right">*November 2022*</div>
- Implemented a java **garbage collector** leveraging the MMTk framework. Incorporates a hybrid design from Generational copying and Mark-sweep algorithm. Analyzed performance by running DaCapo and SPECjvm 2008 benchmark tests

Taco-DB | *C++, abseil* <div align="right">*May 2022*</div>
- Built a **mini database** incorporating buffer manager, Variable length data page, 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 and benchmarked against TPC-H data set for Q3 & Q5 queries

Good Karma Coin (Git) | *React, Solidity, web3.js* <div align="right">*April 2022*</div>
- Prototyped a **cryptocurrency** to ensure funds reach those in need while minimizing the risk of exploitation
- Developed within 24hrs as a team of 4 during UB Hacking'22 and was awarded **Best Blockchain Hack**

Lamda - Twitter search engine (Git) | *Vue.js, Django, Solr, AWS* <div align="right">*October 2021*</div>
- 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* <div align="right">*September 2021*</div>
- Prototyped 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