Muhamed Aashiq Mohamed Ibramsha

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EXPERIENCE

Senior Software Engineer | **CodeSecure** | Dallas, TX   *Feb 2023 - May 2024*
- Optimized SQL queries by adding triggers and indexes to database, achieving a **30x** reduction in query time
- Architected and updated microservices for Scan History management, integrated with Angular frontend and Developed comprehensive test suites to ensure robust functionality and reliability
- Mentored interns, closed 100+ backlog bugs, responsible for 50+ Pull request reviews and maintained code quality
- Crafted a queue and cache solution utilizing MinIO Cloud storage, puppeteer to handle large-scale PDF exports

Software Engineer Intern | **CodeSecure** | Buffalo, NY   *May 2022 - Dec 2022*
- Added dark mode support and enhanced responsiveness of front-end improving overall UI and UX

Software Engineer | **Facilio** (Series-A Startup) | Chennai, India   *Jul 2019 - Jul 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

Software Engineer Intern | **Facilio** (Series-A Startup) | Chennai, India   *Jan 2019 - Jun 2019*
- Developed web pages and RESTful APIs for complete inventory management flow cycle from purchase to storage

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Java, Python, C++
Frontend: Angular, React, Vue.js, TailwindCSS, Redux, Vite, Webpack, Chart.js, RxJS, HTML, CSS (Scss, Sass)
Backend: Node.js, Express.js, Django, Struts, Spring Boot, GraphQL, Hasura, IAM (Keycloak), Zookeeper
Database & Storage: SQL (PostgreSQL, MySQL), NoSQL (MongoDB, DocumentDB), MinIO, Solr, Kafka
DevOps, Testing & Other Tools: AWS, Git, JUnit, MochaJS, Docker, Kubernetes, Nginx, Jira, Notion, Figma

EDUCATION

University at Buffalo, The State University of New York | Buffalo, NY   *Aug 2021 – Dec 2022*
Master of Science, Computer Science and Engineering, CGPA: 3.92/4
Courses: Database Systems, Distributed Systems, Information Retrieval, Algorithms, Networks, Computer Security

Thiagarajar College of Engineering | Madurai, India   *Jun 2015 – May 2019*
Bachelor of Engineering, Mechatronics, CGPA: 8.39/10

PROJECTS

Lamda - Search engine (Git) | *Vue.js, Highcharts, 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

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

Text Chat Application | *C++, Socket Programming*
- Developed text chat application for message and file exchange among remote hosts using TCP sockets