

Umar Mohammad

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Experience

Graduate Teaching Assistant (CSC - 4520 Design and Analysis of Algorithms)

Aug 2023 – Present

Georgia State University

Atlanta, GA, United States

- Enhanced learning outcomes for 90 students by crafting 20+ comprehensive algorithmic coding questions.
- Delivered 60+ hours of instruction and problem-solving sessions, improving my programming and communication skills.

Software Engineer

Jul 2021 – May 2023

Basketo Finance

Hyderabad, TG

- Contributed to developing a dynamic cryptocurrency marketplace at a fast-paced startup, focusing on crypto baskets.
- Designed React user interfaces for dashboards, enabling users to create 200 dashboards and boosting engagement by 30%.
- Implemented Axios in Node for CoinGecko API integration, optimizing real-time pricing accuracy of 50+ cryptocurrencies.
- Enhanced MongoDB database performance by 40% with distributed Redis caching and clustering, improving query speed.
- Integrated MetaMask in wallet system, achieving a 20% rise in transaction efficiency and enhancing wallet functionality.
- Led code reviews for a 10,000+ line codebase and managed CI/CD deployments, proving leadership in code quality.

Software Engineer Intern

Jan 2021 – Jun 2021

Capgemini

Hyderabad, TG

- Contributed to Healthcare Scheduling App, connecting 3000+ patients with 50+ doctors, streamlining appointments.
- Assisted in managing data using Spring with MySQL, hosted on AWS EC2, ensuring efficient storage and retrieval.
- Developed an autocomplete feature by implementing real-time data synchronization between MySQL and Elasticsearch.
- Configured Debezium with MySQL's binary log to capture row-level changes, streaming them to an Apache Kafka topic.
- Developed Spring Boot producers for data publishing and consumers for efficient data retrieval from Kafka topics.
- Actively involved in code reviews and authored test classes, significantly boosting overall test coverage from 43% to 88%.

Software Engineer Intern - Open source project (Part-time)

Oct 2021 – Jun 2022

LibreHealth

Remote

- Contributed to LibreHealth's open-source project, particularly in development, bug resolution, and deployment.
- Developed 5+ modular components with Node.js, introducing microservices architecture to the project.
- Built 10+ RESTful APIs using Express.js, ensuring robust data communication between frontend and backend.
- Aided in deploying 3 major updates using Docker and explored Kubernetes for better load balancing and scalability.

Technical Skills

Languages & Web Technologies: Java, Javascript, Python, C++, React, Vue, Express, Node, HTML, CSS

Back-end & Testing: Spring Boot, REST APIs, JSON, XML, Selenium, JUnit, Mockito, Apache Kafka

Cloud, OS & DevOps: AWS, Amazon S3, RDS, EC2, Linux, Jenkins, Unix/Linux, Git, Docker, Lambda

Databases & Tools: SQL Server, MySQL, PostgreSQL, MongoDB, DynamoDB, Kubernetes

Education

Georgia State University

Aug 2023 – Dec 2024 (Expected)

Master of Science in Computer Science

Atlanta, GA

Vel Tech University

Jul 2017 – May 2021

Bachelors in Computer Science and Engineering

Chennai, TN

Projects

ElectionGuard - Blockchain-Powered Voting System

Jun 2020 – Dec 2020

- Designed a scalable voting system for university elections with 1000+ registrations and 600+ concurrent voters.
- Implemented a voter registration module with Node; used SMS verification via Twilio for voter ID authenticity.
- Deployed smart contracts on the blockchain for transparent vote tallying and automatic transaction handling.
- Partnered with a senior research scholar to leverage AutoEncoders model to detect irregular voting patterns.
- Hosted the application on AWS, optimized performance with Linux tool http; ensured consistent system uptime.

Hackathons and Achievements

- Hackathon Winner - Best solution for Interoperability - \$25,000 LUXE NFT (North Division) by Hack the Inevitable.
- Hackathon Winner - Most Creative Use Case for the Invoices API by Square: Software Development.
- Achieved a 5-star rating on CodeChef and HackerRank, consistently ranked within the top 1000 in Codeforces contests.
- Successfully solved 400+ LeetCode problems and participated in Google's Kickstart, Hashcode coding challenges.