Umar Mohammad

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Academic Qualification

Georgia State University Aug 2023 – Dec 2024(Expected)
Master of Science in Computer Science *Atlanta, GA*

Vel Tech University Jul 2017 – May 2021
Bachelor of Technology in Computer Science and Engineering - GPA: 3.58/4.0 *Chennai, TN*

Professional Experience

Graduate Teaching Assistant Aug 2023 – Present
Georgia State University *Atlanta, GA*

- Instructed students in practical business analysis models, including heuristic forecasts and Excel-based regression. Designed and evaluated assignments, quizzes, and projects. Assisted other instructors and managed attendance.

Software Engineer | Full Stack Developer Jul 2021 – May 2023
Basketo Finance (Startup) at T-Hub Incubation center *Hyderabad, TG*

- Developed a platform for retail investors with atleast $10,000 in annual transactions, facilitating diversified crypto investments and real-time tracking using React, Next.js, Material UI, Mongo DB, and Node.js with Express.
- Integrated the platform with the blockchain through Ethers for Ethereum interactions, along with Coinbase and MetaMask wallets, resulting in a 40% increase in user security and enabling digital asset management.
- Optimized asset allocation and portfolio composition by 20% using quadratic programming algorithm, and provided accurate historical performance via user-friendly dashboard by using time series analysis techniques.
- Followed Agile methodologies with regular sprints, collaborated with team through Slack, and handled unit testing, troubleshooted critical bugs, and GitHub deployments using CI/CD.

Software Engineer Intern Jan 2021 – Jun 2021
Capgemini *Hyderabad, TG*

- Developed a Healthcare Scheduling Application enabling patients to book appointments with doctors using spring boot, RESTful Web Services, MySQL, React, Git. Used geospatial indexing to sort doctors by locality, and ranked search results by relevance using Term Frequency-Inverse Document Frequency.
- Implemented reminder and notification features for upcoming appointments and integrated platform with the Razorpay payment gateway to facilitate secure transactions between patients and doctors.
- Enabled Google Calendar synchronization resulting in a 40% improvement in scheduling efficiency. Designed user-friendly interfaces for rating and reviewing doctors, aiding informed decision-making among users.

Projects

ElectionGuard - Blockchain-Powered Voting System | *Node.js, Vue.js, MongoDB* Jun 2020 – Dec 2020

- Developed a voting system that has voter registration, voting and result components using vue.js and node.js.
- Programmed smart contracts on Remix IDE to automate vote transactions and used Elliptic Curve Digital Signature Algorithm to encrypt user data.
- Generated QR codes, JSON files using GETH Ethereum softwares and used ethers.js for ethereum interaction.

Technical Skills

Languages & Concepts: Data Structures and Algorithms, Java, Python, C++, JavaScript, Solidity, HTML5, CSS3
Frameworks & Databases: React, Node.js, Spring boot, JUnit, WordPress, Material UI, RESTful Web Services, Spring Security, Spring Data JPA, Spring Microservices, Selenium, MySQL, PostgreSQL, Oracle, MongoDB
Developer Tools: Git, Docker, Amazon Web Services, Visual Studio Code, Postman, PyCharm, Eclipse, CI/CD
Libraries: TensorFlow, pandas, NumPy, Matplotlib

Open source contributions, Hackathons & Certifications

- Open source contribution - Worked on LibreHealth, an open-source healthcare project. Involved in developing new features, optimizing code, code reviews, quality maintenance, and resolving critical bugs
- 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: Build What's Possible
- Coding Contest Winner - CODEATHON - *Dynamic Programming, Greedy, Graphs, Binary Trees, DFS, BFS, Sorting*
- Certifications - Cisco Certified Network Associate | Coursera - Predicting House prices using regression Tensorflow