Hasan Mhowwala

hasan.mhowwala001@gmail.com • +1 669-312-8667 • LinkedIn • Seattle, WA

Professional Experience

Associate Software Engineer   **Jan 2023 - Jul 2023**
Snitty Technologies, Indore, India

- Engineered complex algorithms for Fantasy Soccer/Cricket features, enabling real-time updates for user engagement and accuracy.
- Achieved a drastic reduction in fantasy page load time from 26 seconds to 1 second by optimizing data fetching processes for over 1,000 players.
- Leveraged Amazon S3 and CloudFront for efficient album uploads, resulting in a 23-25% boost in overall website performance.

System Reliability Engineer   **Aug 2022 - Dec 2022**
Snitty Technologies, Indore, India

- Designed and implemented a dashboard for visualizing support case analytics, leading to a 60% reduction in manual data entry and analysis efforts.
- Established a continuous delivery pipeline using Docker and Kubernetes, automating deployment processes for internal virtual machines, which enhanced operational efficiency.

Academic Experience

Distributed Data Analysis System   **Jan 2024 - May 2024**

- Designed and implemented a distributed data analytics system in C++ with Qt Creator and CMake on Linux, processing over 100GB of data daily for large-scale analysis across multiple nodes, significantly enhancing efficiency
- Enhanced the ingestion pipeline's performance by 25% through multithreading and asynchronous processing, minimizing latency and optimizing throughput across distributed nodes, which significantly improved real-time data handling.
- Reduced metadata query response times by 35% and achieved 99.9% system uptime, improving the reliability and speed of real-time data retrieval for high-demand analytical tasks.

Microservices-Based Social Media Platform (Replica of Twitter)   **Aug 2023 - Dec 2023**

- Developed a microservices-based social media platform with a React and TypeScript front-end, ensuring seamless user interaction and real-time content updates.
- Styled the front-end using CSS and SCSS to create a consistent and responsive design across web and mobile devices.
- Optimized backend performance by 30%, using MongoDB and Kafka to decrease system response times to under 200ms, enhancing user experience for 5,000+ concurrent users.

Movie Ticketing Portal   **Jan 2023 - May 2023**

- Built a real-time movie ticketing system with a jQuery and Backbone front-end, allowing for efficient browsing and booking across a large user base.
- Styled the application using CSS and Bootstrap to provide a clean and responsive interface, handling over 1,000 daily users.
- Managed version control with Git and implemented Mocha and Karma for test automation, achieving high test coverage and ensuring performance under concurrent use.

Education

San Jose State University, San Jose, CA
Master's in Computer Software Engineering   **Aug 2023 - Present**
Relevant Coursework: Distributed Systems, High Performance Computing, Data Mining
GPA: 3.38 / 4.00

Medi-Caps University, Indore, India
Bachelor's of Technology in Computer Science   **Aug 2019 - May 2023**
Relevant Coursework: Data Structures and Algorithms, Operating Systems, DBMS
GPA: 3.65 / 4.00

Technical Skills

Languages: R, Python, C++, SQL, JAVA, JavaScript, TypeScript, Ruby, Perl
Frontend: React, Redux, jQuery, Backbone, TypeScript, Bootstrap, SCSS
Backend: Node.js, Django, Next.js, Nest.js, Rails, CakePHP, Flask, Spring
Web Technologies: HTML5, CSS3, PHP, AJAX, REST
Database: MongoDB, MySQL, DynamoDB, PostgreSQL
Developer Tools: Git, Azure, Docker, GCP, VS Code, Visual Studio, PyCharm, AWS, Jupyter, Kubernetes, GitLab CI/CD, Jenkins
Other: RabbitMQ, Kafka, Nginx, Serverless Architecture, Redis, Word, Excel, PowerPoint