Atharva Keshre

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Results-driven Software Engineer with 3 years of experience in the MERN stack, cloud technologies, distributed systems, Agile (Scrum), SDLC (Software development life cycle) and CI/CD pipelines. Proven ability to build scalable web applications in a collaborative team environment, enhancing development efficiency and user engagement. Adept at problem-solving, process improvement, troubleshooting, and delivering high-quality, user-focused solutions

WORK EXPERIENCE

Graduate Teaching Assistant | Northeastern University | Boston, MA **Jan 2025 – April 2025**

- Developed a full-stack Peer Evaluation Tool using **React**, **Node.js (Express)**, and **MS SQL Server**, enabling students to evaluate group members' monthly participation. **Hosted on Vercel, Render, and Azure** for frontend, backend, and database services
- Guided students in mastering **fundamental to advance MySQL, and ER diagrams** concepts
- Mentored 50+ students in applying database design concepts, focusing on creating effective ER diagrams, normalization, indexing strategies, query performance optimization, and **Power BI** for data visualization and insights

Software Engineer | **Zensar Technologies Pvt. Ltd.** | **India** **July 2020 – July 2023**

- Worked in a 7-person cross-functional team in developing a dynamic **MERN stack** application using the **MVC architecture**, achieving a 30% increase in development efficiency by creating **reusable components** and modular **server-side functionalities**
- Deployed **serverless backends** using **AWS Lambda**, integrated with **React frontends**, leading to a 20% reduction in server costs
- Transformed the app into a **Progressive Web App (PWA)**, enabling offline access, leading to a 30% increase in user engagement
- Developed a comprehensive **React component library** with streamlined templates, which increased development speed by 25% and significantly enhanced component reusability across multiple projects
- Utilized **React's efficient data flow architecture** to design lightweight, high-performance web applications, which resulted in a 30% improvement in load times and ensured that the applications were highly scalable and responsive to user interactions
- Implemented and managed an extensive suite of **300+ unit tests** for server-side applications using **Jest** and **Cypress**. Adhering rigorously to **SonarQube**'s stringent quality standards, resulting in robust and reliable software excelling in performance

PROJECTS

Snap | **YouTube Creator Ad Engagement** | **Next.js, Rust, PostgreSQL, Terraform** **Sept 2024 – April 2025**

- Developed a **SaaS** application for YouTube creators, enabling real-time audience interaction with personalized ads to generate leads
- Implemented infrastructure automation with **Terraform** and leveraged **AWS Kinesis** for real-time data streaming, ensuring seamless ad engagement during video playback

Journal App| **Java, Spring Boot, React, MongoDB, Lombok, Mockito, Kafka** **Sept 2024 – Dec 2024**

- Built a Journal application with **Spring Boot, React, MongoDB**, **Redis**, **and Maven** enabling users to securely create, edit, and organize entries, with robust authentication and role-based access via **Spring Security and OAuth2**
- Applied **Test-Driven Development (TDD)** to design **features** and ensured application reliability by writing **JUnit** test cases for backend components, integrating **SonarCloud** for code quality analysis, and automating test execution using **GitHub Actions workflows**

Drive Easy | **Fleet Rental Database Management System** | **SQL Server, T-SQL, Next.js** **Jan 2024 – April 2024**

- Established a Fleet Rental Database System using **SQL Server** to manage 500+ vehicles, 1,000+ customers, and 2,000+ transactions
- Employed **Next.js**, **Node.js, Express.js, Axios, and React** to create an intuitive user interface and facilitate CRUD operations
- Leveraged **SQL's advanced features**, including **user-defined functions, stored procedures, and triggers**, to enforce business rules, automate tasks, and enhance data integrity, resulting in a 20% improvement in efficiency for the fleet rental system.

EDUCATION

Master of Science in Information Systems **Sept 2023 – May 2025**

Northeastern University, Boston, MA GPA: 3.787

Courses: Application Engineering Design, Web Design, User Experience, Data Management, Database Design, Design Patterns

Bachelor of Engineering in Information Technology **Aug 2016 - Aug 2020**

Acropolis Institute of Technology and Research, India GPA: 3.0

Courses: Object Oriented Programming, Data Structures, Operating Systems, Analysis and Design of Algorithms, UI/UX, OOD

TECHNICAL PROFICIENCY

Programming Languages: Python, C++, C#, Java, JavaScript, TypeScript
Frontend Technologies: React.js, Next.js, Angular, Redux, Bootstrap, HTML, XML, CSS, SCSS, SASS, JSON, YAML
Backend Technologies: Node.js, Express.js, Spring Boot, Hibernate, Mongoose, Microservices, Rest API, Django, Flask
Databases and Cloud: PostgreSQL, MongoDB, MySQL, PL/SQL, NoSQL, AWS (EC2, S3, Lambda)
Dev Tools and Operations: Version Control - Git, GitHub Actions, CI/CD, Docker, Power BI, Linux, Jira, ServiceNow
Additional Skills & Tools: Unix, Linux, Swagger, Server-Side Rendering (SSR), OAuth, JWT, Figma, VS Code, Eclipse