Atharva Keshre

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WORK EXPERIENCE

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

- Developed full-stack Peer Evaluation app using **React**, **JavaScript, Express**, **MS SQL Server**, **Vercel,** & **Azure** enabling students to evaluate group members' monthly participation, significantly improving group accountability
- Mentored 50+ students in applying database design & SQL concepts, focusing on creating effective ER diagrams, normalization, indexing strategies, query performance optimization, and Power BI for data visualization and insights

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

- Collaborated with a cross-functional team to develop a modern **LMS** for a European client, using **MERN** stack with **MVC architecture**, enabling seamless content delivery, assignments, & progress tracking for over 10,000+ students
- Deployed serverless **RESTful APIs** using **AWS Lambda**, integrated with **React**, leading to a 40% reduction in server costs
- Built a comprehensive React component library with **Storybook** and reusable templates, boosting development speed by 25% and enabling consistent, scalable UI implementation across multiple projects
- Transformed the LMS into a **Progressive Web App (PWA)** with offline capabilities and background sync, boosting **user retention by 30%** in low-connectivity regions
- Implemented 300+ **automated unit and integration tests** using **Jest** and **Cypress**, enforcing quality through **SonarQube** and **ESLint**, resulting in a significant drop in post-release bugs

PROJECTS

Snap | YouTube Creator Ad Engagement | Next.js, Rust, PostgreSQL, Terraform   **Jan 2025 – July 2025**

- Developed a distributed **SaaS** platform for YouTube creators to boost audience engagement and lead generation using **Next.js**, **TypeScript**, **Rust**, and **PostgreSQL**; built **microservices** to enable real-time ad personalization, resulting in a 35% increase in viewer interaction and a 20% uplift in lead conversion
- Automated cloud infrastructure provisioning using **Terraform** & integrated **AWS Kinesis** to stream real-time viewer data, enabling dynamic ad injection during playback & reducing ad latency, significantly improving user engagement

JobJuxta-AI | Python, FastAPI, MongoDB, Next.JS, Generative AI   **June 2025 – July 2025**

- Built an **AI powered** resume optimization platform, helping users tailor resumes to specific job roles
- Integrated **Gemini AI (2.5 Flash)** to analyze resumes and provide actionable insights, while leveraging **Cursor** for AI-assisted coding to streamline development and enhance code quality
- Built a **CI/CD** pipeline using GitHub Actions & **Docker** to automate testing and deployment of both frontend and backend, & hosted the **containerized** application on an **AWS EC2 (Linux)** instance for scalable, reliable operations

DailySync | Java, Lombok, Mockito, Kafka, Git   **Sept 2024 – Dec 2024**

- Built a web app with **Java, 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, JWT, and OAuth**
- Applied **Test-Driven Development (TDD)** to design features and ensured application reliability by writing **JUnit** test cases, integrating **Sonar Cloud** for code quality analysis, and automating test execution using **GitHub Actions** workflows

EDUCATION

Master of Science in Information Systems   **Sept 2023 – May 2025**
Northeastern University, Boston, MA GPA: 3.75
Courses: Agile Software Development , Web Design, User Experience, Data Management, 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, Analysis and Design of Algorithms, UI/UX, OOD

TECHNICAL PROFICIENCY

Programming Languages: Python, C++, C#, Java, JavaScript, TypeScript
Frontend Technologies: HTML, CSS, React.js, Next.js, Angular, Redux, Bootstrap, Material UI, SCSS, SASS
Backend Technologies: Node.js, Express.js, Spring Boot, Hibernate, Microservices, Django, Flask, REST API, ASP.NET Core
Databases and Cloud: PostgreSQL, MongoDB, MySQL, PL/SQL, NoSQL, AWS(EC2, S3, Lambda, API Gateway, DynamoDB)