

Aditya Raj

Software Developer/Web Developer

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Core Competencies

Technical Skills — Python | JavaScript | C# | Git | GitHub | ReactJs | Testing | RestApi | Postman |

SQL: Proficient in writing and optimizing simple and complex SQL queries for data validation and reporting. |

SDLC: Strong understanding of **Software Development Life Cycle** and software engineering principles.

Education

07/2021 – 08/2024 **B.Tech in Computer Science**
Greater Noida, India *Noida Institute of Engineering and Technology*

06/2015 – 05/2018 **B.Sc in Science**
Agra, India *Dr Bhim Rao Ambedkar University*

Professional Experience

01/03/25 – Present **Software Engineer**
Noida *TechOTD*

- Engineered and maintained RESTful APIs using MongoDB and Node.js, while also decreasing server response time by 15% through efficient data indexing.
- Revitalized intuitive user interface components with React.js, enhancing data visualization and user experience, and enabling the identification of three critical areas for system performance improvements.
- Enhanced application responsiveness by incorporating code splitting strategies, which reduced the size of initial JavaScript bundles by 45% and Upgraded overall application start-up time.

22/10/24 – 06/02/25 **Analyst**
Navi Mumbai, India *Capgemini*

- Integrated a user-friendly reporting dashboard into a **Online Retail Management Application** using C# and .NET, enabling store managers to generate customized sales reports and track key performance indicators daily.
- Spearheaded the migration of legacy retail data to a cloud-based Microsoft SQL server, ensuring seamless data accessibility and minimizing downtime during peak sales periods by 99%.
- Developed and implemented database indexing strategies within Microsoft SQL, reducing report generation time by 50% and enabling faster data analysis by the retail operations team.

01/04/24 – 15/10/24 **SquareHack**
Remote *Software Developer*

- Developed and optimized responsive, user-friendly frontend interfaces using **React.js**, **JavaScript**, **HTML5**, and **CSS3**, ensuring seamless cross-browser compatibility and performance.
- Converted UI/UX wireframes and design mockups into high-quality functional web pages with improved user experience and accessibility standards.
- Integrated RESTful APIs for dynamic data rendering, including real-time updates and efficient error handling.

- Participated in **code reviews**, bug fixing, UI enhancements, and deployment workflows to deliver high-quality product releases within deadlines.

Projects

GDA

- Developed interactive frontend functionalities using **JavaScript** and enhanced user input handling through **XRegExp** and **jQuery** for dynamic DOM manipulation.
- Integrated frontend elements with backend APIs built using **Django (Python)** to enable real-time course data, authentication, and user interactions.
- Collaborated on UX improvements and debugging cycles, ultimately delivering a **clean, user-friendly experience** for learners.

HealthBoat

- Developed the complete front-end of **Health Boat Foundation's official website** using **React.js**, delivering a modern, fast, and user-friendly interface.
- Built reusable UI components for all key pages including **Home, Services, About, Healthcare Providers Network, Impact Stories, Contact**, and other informational sections.
- Structured component-based architecture for **scalability, maintainability, and faster UI updates**, supporting future expansion of medical services and features.
- Collaborated closely with UX and backend teams to ensure **API-ready structure** for dynamic content integration, improving performance.
- Applied best practices in **code optimization, routing (React Router), state management**, and accessibility for improved user experience.
- Contributed to brand consistency by implementing clean and professional UI aligned with the organization's healthcare mission and visual guidelines.

Movie Recommendation System:

Collaborative filtering model for recommendations

- Engineered a collaborative filtering movie recommendation system using **Python** and **TMDB API** data, enhancing user engagement by generating 5,000+ personalized daily movie suggestions, increasing click-through rate by 15%.
- Built a foundational movie metadata database using Python and TMDB API data within Jupyter Notebook, **directly enabling a 30% uplift in recommendation accuracy** by providing rich, enhanced data features.
- Standardized data preprocessing pipelines using Python, enabling faster model iteration cycles; the Initiated pipelines resulted in findings to fix the three biggest causes of low model performance.

Swachh Bharat Abhiyan Project:

GPS-based Waste Reporting and Optimization System

- Modernised a **GPS-enabled waste management system**, decreasing route mileage by 15% and improving collection efficiency, enabling the municipality to service 500 more households weekly with existing resources.
- Launched a user-friendly data logging application with integrated error handling, decreasing help desk tickets related to logging issues by 90%.
- Streamlined **Apache Server** configurations, which Revised application response times by 30% and reduced server downtime by 15%, even as the most junior member on the development team.

Certificates

- Software Engineering: Software Design and Project Management [↗](#)
- The Complete React Developer Course (with Hooks and Redux)
- Certification in Web Development with HTML, CSS, JS authorized by IBM Skills Network
- Microsoft Azure Fundamental
- Certification in Angular
- Certification in Salesforce AI Agent Associate

Languages

- Hindi
- English

Highlights

- Demonstrated ability to analyze complex problems, break them into smaller components, and identify relationships.
- Applied understanding of **relational database concepts** including primary/foreign keys, normalization, and query execution using **SQL/DB2**.
- Strong sense of **ownership and accountability**; consistently delivers assigned tasks with quality and timeliness.
- Integrated seamlessly into five distinct project teams during a period of rapid organizational restructuring, delivering key data analysis reports that drove strategic decisions and aligned with goals.