

ADARSH VERMA

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Education

Indian Institute of Information Technology, Jabalpur

Nov. 2022 – July 2026

Bachelor of Technology in Manufacturing Engineering

Technical Skills

Languages: Java, Python, C++, JavaScript, TypeScript, SQL, HTML/CSS, Solidity
Frameworks/Libraries: React, Next.js, Node.js, Express.js, SpringBoot, Redux, TailwindCSS, Bootstrap, GraphQL
Databases: MongoDB, MySQL, PostgreSQL
DevOps: Git, GitHub/GitLab, Jenkins, Docker, Kubernetes
Developer Tools: Linux, Postman, Mongo-Atlas, VS Code, IntelliJ IDEA, Eclipse
Engineering Tools: SolidWorks, Matlab, Adams, Autodesk Fusion 360, Rhino3D

Projects

Kairo - Flow-Based Job Scheduler and Editor | *GitHub*

Present

Next.js, Prisma ORM, TanStack Query, Zod, Shadcn-UI, Stripe, SQLite

- Designed and implemented an automated job scheduling system to optimize daily unit test execution, reducing manual intervention and accelerating bug detection.
- Developed Python and PowerShell scripts to aggregate XML test results and deploy latest builds onto hardware, streamlining continuous testing workflows.
- Integrated Jenkins for continuous integration to automate build deployment, test execution, and report generation on a daily basis.
- Implemented a web-based dashboard using HTML, JavaScript, and CSS to visualize test results and deliver actionable insights to the development team.

Natter - Real-Time Web Chat Application | *GitHub* | *Live*

April 2024 – May 2025

React.js, Node.js, Express.js, MongoDB, WebSockets, Socket.io

- Developed a scalable, real-time chat application supporting multi-user conversations and instant messaging with a responsive UI.
- Implemented WebSocket-based communication via Socket.io to enable low-latency, bidirectional data transfer between clients and server.
- Managed user authentication and data persistence using MongoDB, ensuring secure and reliable storage of chat history.
- Collaborated in an agile environment, utilizing Git for version control and continuous feature integration.

StreamPod | *GitHub* | *Live*

Jan. 2024 – Feb. 2024

React.js, Node.js, MongoDB, Scikit-learn, NumPy, Pandas

- Designed and developed a platform using machine learning algorithms to provide personalized content recommendations based on user preferences and behavior.
- Implemented backend data processing pipelines leveraging Pandas and NumPy for feature extraction and Scikit-learn for model training and prediction.
- Built an interactive front-end interface using React.js to deliver real-time content suggestions and improve user engagement.
- Ensured data consistency and security by integrating MongoDB for efficient storage and retrieval of user data.

Journal-App Backend | *GitHub*

May 2024 – June 2024

SpringBoot, Java, Spring Security, Maven, Git

- Developed a secure backend service for a journal application including RESTful APIs for user authentication, data management, and journaling features.
- Implemented Spring Security to enforce authentication and authorization, safeguarding user data privacy.
- Collaborated with front-end developers to ensure seamless integration with the mobile application.

Achievements and Extracurricular Activities

- Solved over 500 coding problems on competitive programming platforms such as LeetCode and CodeChef, enhancing algorithmic thinking and problem-solving skills.
- Achieved a rank of 4486 in the CodeChef Starter 91 contest and earned a 3-star rating on CodeChef.
- Led a team of three members in a hackathon, successfully delivering a functional prototype under strict time constraints.