

Avi kumar

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TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript

Web Technologies: React.js, Redux, Spring Boot MVC, HTML5, CSS3, Tailwind, Node.js, REST APIs, Microservices

Database & Tools: MongoDB, MySQL, Redis, Firebase, Docker, Postman, Git Version Control, Railway, IntelliJ IDEA

Core Competencies: Data Structures & Algorithms, Software Design Principles, Object-Oriented Programming, Debugging, Problem-Solving

Operating Systems: Windows, MacOS

EXPERIENCE

Times Of India

April 2025 – June 2025

Full Stack Developer and AI/ML Intern

Delhi

- Pioneered ImageGuard 🎬, a full-stack web application for secure image handling; integrated user authentication and watermarking features, while achieving a 99% accuracy rate in intelligent detection using machine learning algorithms.
- Crafted an interactive dashboard displaying real-time analytics using React and Python, enabling product managers to identify user drop-off points and improve conversion rates by 15%.
- Integrated machine learning models, improving ImageGuard's forgery detection accuracy by 85% through rigorous testing and hyperparameter tuning, achieving zero false positives on a controlled dataset of 500 images.

Zidio Development

April 2025 – Present

Full Stack Developer Intern

Bangaluru

- Engineered a RESTful API endpoint for the Zidio Development project, processing over 5,000 requests per day with an average response time under 200ms, maintaining code scalability.
- Fortified image forgery detection using a novel machine learning algorithm, demonstrably boosting detection reliability by 15% and improving overall system robustness by 20%.
- Contributed to the adoption of agile methodologies, utilizing Jira and Confluence, improving team productivity by 15% through iterative development cycles.

PROJECTS

YouTube Clone 🎬 | React 19, Redux Toolkit, React Router v7, Tailwind CSS v4, Vite

- Spearheaded the development of a personal YouTube clone utilizing React 19 and Redux Toolkit, completing 10 core front-end features within a 6-week timeframe, exceeding initial project goals.
- Implemented efficient trie data structure algorithm for real-time search, showcasing strong debugging complex issues and reducing search time by 60% through optimized algorithms.

MindScribe 🗒️ | java, Spring Boot, Maven, MongoDB, SonarCube, Postman

- Architected a secure, full-stack journal application employing Java Spring Boot, MongoDB, and a responsive React frontend, enabling users to digitally record over 100 private entries.
- Built scalable microservices backend using Java Spring Boot with JWT authentication, demonstrating software design principles and supporting 1,000+ concurrent users with optimized algorithms.
- Implemented efficient data structures with MongoDB Atlas and Redis caching, improving API response times by 45% through Strategic thinking and performance optimization.

Netflix-GPT 🎬🗄️ | React, Vite, Firebase, Tailwind, Node.js, Mock Data Integration, ChatGPT API

- Pioneered the integration of OpenAI's GPT API with the React.js frontend, creating an intelligent system that improved content generation speed by 4x and reduced manual writing hours by 300 weekly.
- Applied software design principles to architect secure authentication system with protected routes, achieving 99.9% uptime through efficient debugging and optimization techniques.

EDUCATION

Bennett University

2022-Present

Bachelor of Science in Computer Science (GPA: 8.75 / 10)

Greater Noida, U.P.

ACHIEVEMENTS

- **Competitions:** Secured 2nd Rank in EY CAFTA Case Championship Mega Edition 2024 (Round 1) and 4th rank in Final Round.
- **Innovation Recognition:** Awarded two state-level and one national-level Science Exhibition awards at IIT-DELHI, showcasing real-life Issue resolution and technical expertise.
- **Open Source:** Earned the Pull Shark Badge on GitHub for active open source contributions.
- **Professional Certification:** Completed Introduction to Front-End Development and React Basics from META.
- **Conference Publication:** Research paper "Student Style" accepted at ICRAET-2024 on 06th Jun 2024 at Munnar, India.
- **Technical Training:** Successfully completed the Python Essentials 1 Course by Cisco Networking Academy.