

# 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.
- Constructed backend REST APIs, using **advanced sorting algorithms and data structures**, resulting in an average 30ms response time for data processing requests, improving the speed of the web application.
- 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, Redis, SonarCube, Postman, Railway*

- Architected a secure, full-stack journal application employing **Java Spring Boot, MongoDB, Redis** 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 95.9% 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 **-2pt 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**.