ADITYA VERMA

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EDUCATION

Thapar Institute of Engineering & Technology   **2022 – 2026**
B.E., Electronics and Communication Engineering; CGPA: 7.51 (Current)

COURSEWORK

- Data Structures & Algorithms
- Object Oriented Programming
- Machine Learning
- Artificial Intelligence
- Computer Architecture
- Database Management System

PROJECTS

Pixora | **Next.js, TypeScript, MongoDB, Clerk, Cloudinary, Stripe**   *Live Demo* ↗ | *GitHub* ↗

- **Built a full-stack AI SaaS platform** offering intelligent image processing features like restoration, recoloring, object/background removal, and generative fill.
- Integrated **Clerk authentication** and **Stripe payment** systems with a **credit-based transformation model**.
- Designed a responsive UI using **TailwindCSS** and **Shadcn UI**, enhancing user experience across devices.
- Engineered reusable, modular architecture with **API routes, actions, and webhooks** for scalable cloud functions.
- Utilized **Cloudinary AI** for high-performance image transformations and secure media handling.

StockWise | **Node.js, Express.js, MongoDB, Mongoose, JWT**   *GitHub* ↗

- **Developed a robust system** for efficient stock tracking and order processing.
- Implemented **JWT-based authentication** and **role-based access control** for secure user management.
- **Optimized database queries** using Mongoose, improving response time by **25%**.
- Designed a **RESTful API** for seamless inventory operations and data retrieval.
- Integrated **error handling and logging** using Winston, ensuring system reliability.

ShopAPI | **Node.js, Express.js, MongoDB, Mongoose, JWT**   *GitHub* ↗

- **Built a scalable RESTful API** for **product management and shopping cart operations**.
- Implemented **JWT-based authentication** and role-based access control.
- **Optimized API performance** by 20% using query enhancements and database tuning.
- Integrated **Swagger documentation** for streamlined API access and onboarding.
- Implemented **advanced logging and error handling** using Winston and CORS security.

SKILLS

Languages: C++, Python, Java, SQL, TypeScript, JavaScript
Frameworks & Libraries: Next.js, Node.js, Express.js, Spring (basic), MVC frameworks
Tools & Platforms: Git, GitHub, Linux, Vercel, Postman, Swagger
Databases & Cloud: MongoDB, MySQL, Cloudinary, Clerk
Key Skills: Data Structures & Algorithms, RESTful APIs, OOP, Authentication

CERTIFICATIONS

- J.P. Morgan - Software Engineering Job Simulation (Forage) ↗
- Deloitte Australia - Technology Job Simulation (Forage) ↗
- Data Structures in C++ (Coding Ninjas) ↗
- Front End — Full Stack Web Development (Coding Ninjas) ↗
- Hack2skill (The/Nudge Institute & Google) ↗