# Vipul Verma

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## EDUCATION

**ABES Engineering College**                                                                         *Ghaziabad, India*
Bachelor of Technology - Electronics and Communication; CGPA: 7.05                      *October 2020 - July 2024*

## PROJECTS

**ServiceFlow: Backend Microservices Demo**  *| Node.js, Express, PostgreSQL, Redis, Docker*
- Built a scalable **Microservices** demo with **API Gateway** routing to independent services.
- Implemented **JWT authentication** at the gateway level, reducing redundant auth checks in services.
- Used **Redis caching** to accelerate product listings, achieving 50ms response times.
- Designed **REST APIs** with **Prisma ORM** for **PostgreSQL** for type-safe database operations and used Redis cache with **Docker** isolation, cutting database load by 60% for high-traffic endpoints.

**Connect Hub**  *| MongoDB, Node.js, Express, Typescript*
- Implemented **JWT** and **bcrypt** password hashing for secure user authentication.
- Integrated **Zod** for schema-based data validation, ensuring robust and error-free input handling across APIs, reducing auth-related bugs by 40%.
- Optimized **MongoDB** queries using **Mongoose** projection operations, reducing API response times by 25%.

**Marketplace**  *| React, MongoDB, Node.js, Express*
- Leveraged full-stack technology, incorporating **Redux** state management and **Razorpay integration** resulting in a 25% improvement in transaction processing.
- Created reusable **React** card components, styled with **Tailwind CSS**.
- Built **Express** server with MongoDB, ZOD and JWT for secure and efficient backend operations.
- Deployed on **Render** and enabled **CORS** for secure client-server communication.

## INTERNSHIP

**Full Stack Intern**  *| Gamersback*                                                                   *April 2024 -June 2024*
- Coordinated with a team of 15 interns to dissect project requirements into achievable tasks.
- Designed and implemented **RESTful APIs** to ensure seamless communication between front-end and back-end systems, boosting overall application responsiveness and reliability.
- Contributed to both client-side and server-side development, ensuring consistent and high-performing interactions across the tech stack.
- Engineered the successful integration of Redux with React, front-end framework.

**Web Developer Intern**  *| Unified Mentor*                                                         *October 2023 -November 2023*
- Created an interactive web-based music player using **HTML**, **CSS**, and **JavaScript**, focusing on seamless functionality.
- Engineered core functionalities such as play, pause, skip, and volume control using JavaScript DOM manipulation.
- Enhanced user experience by creating an interactive and responsive UI, using Tailwind CSS.

## TECHNICAL SKILLS

**Languages**: Python, JavaScript, TypeScript, SQL
**Frameworks**: React.js, Node.js, Express, Tailwind CSS
**Database & ORMs**: MongoDB, PostgreSQL, Prisma ORM
**DevOps & Tools**: Git, Docker, Postman, Redis

## VOLUNTEER EXPERIENCE

**Disciplinary Team Member** *| College Fest*

- Enforced event rules and regulations to guarantee a safe and enjoyable experience for all participants and attendees, overseeing a team of 10 members.