Ujjwal Tiwari

Mumbai, India

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SUMMARY

Backend Engineer focused on **building low-latency APIs** (Node.js, Express) and **optimizing database performance** (MongoDB, Redis). Former data science experience enables **data-informed optimizations**, reducing server costs by 30% in past projects. Proficient in **Agile workflows, system design, and secure API development** (JWT, OAuth).

SKILLS

- **Languages**: Java, JavaScript, Python
- **Database**: MySQL, MongoDB
- **Frontend**: HTML, CSS, React.js, TailwindCSS
- **Backend**: NodeJS, Express.js, RESTApi, Springboot,Redis,Websockets,JWT,OAuth,bcrypt.js
- **Tools** : Postman , Github

EDUCATION

Amity University Mumbai   **2021 - 2025**
Btech, CSE **GPA:** 8.73   *Mumbai,Maharashtra*

INTERNSHIP

Acmegrade Pvt Ltd   **Jun 2024 - Jul 2024**
Data Science Intern   *Mumbai,Maharashtra*
- **Optimized data accuracy by 25%** by implementing advanced data cleaning & preprocessing techniques.
- **Developed interactive dashboards** using Power BI & Tableau, uncovering key business insights that improved strategic decision-mak- ing.
- **Automated data analysis pipelines**, reducing manual processing time by **30%** for industry-specific datasets.

Aptech Technologies   **Jun 2022 - Sep 2022**
Python Developer Intern
- **Built a Student Management System** using Python & MySQL, streamlining student registration & grade tracking for **500+ records.**
- **Optimized API response times by 35%** by implementing caching with Redis and query optimization in Node.js, reducing server load by 25%

PROJECTS

MERN CRUD Product Store | *Node.js, Express, React, MongoDB*
- Engineered a **full-stack e-commerce app** with **RESTful APIs**, enabling seamless product management (CRUD operations).
- **Boosted UI responsiveness** using Chakra UI, enhancing user engagement by **40%.**
- **Deployed on AWS**, ensuring **99.9% uptime** and scalability for **1,000+ daily users**.

Real-Time Chat Application | *Node.js, Express, Socket.io, JWT*
- Developed a **secure chat API** with JWT authentication, reducing security vulnerabilities by **60%.**
- Integrated, improving user profile management efficiency.
- Achieved **<200ms latency** for real-time **Cloudinary for media uploads** messaging using WebSockets.

YouTube Clone (React) | *React, YouTube API*
- Built a **responsive YouTube clone** with dynamic video fetching, improving load speed by **35%.**
- Enhanced UX with **lazy loading & optimized API calls**, reducing data usage by **25%**

CERTIFICATIONS

- **Java with DSA and System Design** - Physics Wallah
- **Complete Web Development Course** - Udemy
- **Python Developer**, Aptech
- **Data Science and analytics**, Acmegrade