Astitva Arya

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https://astitva-arya-portfolio.vercel.app

https://github.com/Joyboy48

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SUMMARY

Computer Science student with hands-on experience in building full-stack applications using Node.js, Express.js, Flutter, and MongoDB. Proficient in Java, C++, and TypeScript, with a track record of completing projects involving JWT-secured APIs, real-time recommendation engines, and AI-powered pipelines. Continuously expanding expertise through coursework and self-driven projects in backend architecture, cloud deployment, and AI integration.

SKILLS

Languages &Frameworks : C, C++, Python, JavaScript, Flutter, Dart, TypeScript, Java, SQL, Node.js, Express.js

Web & App Development : HTML5, CSS3, REST APIs, OAuth 2.0, WebSocket.

Database& Tools : MySQL, PostgreSQL, MongoDB, NoSQL, Postman, Cloudinary, Docker, JWT

EDUCATION

IIIT Nagpur
Bachelors in Technology in Computer Science and Engineering

Sept2023 - June 2027
Current CGPA: 7.75

PROJECTS

JobSmart – AI-Powered Career Platform Backend • (github.com/jobSmart)
- Built a secure backend with **35+ RESTful APIs** protected by JWT authentication.
- Incorporated an AI-powered pipeline with OCR to analyze resumes, boosting user ATS scores by an average of **25%.**
- Improved two AI features, including a mock interview system for **50+ job roles**, achieving a **90% user satisfaction** rate.
- Created a real-time job recommendation engine processing **1,000+ listings** to improve match relevance by **40%**.
- Merged OpenAI (LLMs), Cloudinary, Tesseract.js (OCR), and Remotive API in a modular backend.
- Eliminated **100%** of deployment configuration errors by containerizing the application with **Docker**.
- **Tools & Technologies:** Node.js, Express.js, TypeScript, MongoDB, OpenAI API, JWT, Docker, Cloudinary, Tesseract.js

EliteCart – Full-Stack E-commerce Platform • (github.com/EliteCart)
- Developed a full-stack e-commerce app with a Node.js backend and a Flutter frontend supporting 4 platforms with **15+ features**.
- Build a responsive Flutter UI with **50+ reusable widgets** and **20+ screens** using the GetX framework for state management.
- Architected a scalable Node.js API in TypeScript with **50+ endpoints** and custom error handling, achieving **99.9% uptime**.
- Executed secure user authentication with 2 methods (JWT & Google OAuth) to protect all sensitive user and admin routes.
- Engineered core e-commerce logic (cart, orders, reviews) by modeling **9 distinct** data schemas in MongoDB using Mongoose.
- Integrated Cloudinary for managing **1000+ cloud-based images** and Nodemailer for automated transactional emails.
- Managed the full project lifecycle, delivering a deployed backend and a production-ready APK, accelerating development by 50%.
- **Tools & Technologies:** Flutter, Dart, GetX, Node.js, Express.js, TypeScript, MongoDB, JWT, Google OAuth, Cloudinary.

Streamzy – Social Video-Sharing Platform Backend • (github.com/js-backend)
- Architected a scalable Node.js backend with a modular MVC pattern, accelerating feature development by **25%**. Optimized the
- media pipeline using Cloudinary, handling **50+** concurrent uploads with a streaming latency under 1.2s.
- Secured **40+** RESTful endpoints with JWT and custom middleware to enforce role-based access control (RBAC).
- Designed a complex social Constructed model by designing 8 interconnected Mongoose schemas for **500+** daily interactions.
- Implemented a user analytics dashboard and an API health check endpoint to ensure high system observability and reliability.
- **Tools & Technologies:** Node.js, Express.js, MongoDB, Mongoose, Cloudinary, JWT, Multer.

Social Media • (github.com/SocialMedia)
- Expanded a social media application enabling users to sign up, post updates, add friends, share content for over **100+ users**.
- Implemented features like real-time messaging (handling **1,000+ messages**/day), story sharing (with image and reply support).
- controlled last-seen status, and media sharing (images and videos up to 20MB).
- Achieved over 200+ user interactions, **50+ shared posts**, and ensured seamless performance for **50+ simultaneous** users.
- **Tools & Technologies:** SQL, JavaScript, WebSocket, HTML/CSS.

AWARDS & ACHIVEMENTS

- Ranked 5th in a national-level hackathon by IIITM Gwalior, 2024, for an AI-based farming solution.
- Reached the final round (Top 50 of 1600) of a national hackathon hosted by Medecro.ai, 2024.
- Solved 150+ questions on Leetcode.