Dev Pratap Singh

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Education

Jaypee Institute of Information Technology   **Jul 2021–May 2025**
Bachelor of Technology, Computer Science Engineering

Work- Experience

Mob Fountain, Remote |Web Development Intern   **Jun 2024 – Jul 2024**
- Spearheaded the development of a responsive job portal, improving user engagement. Increased session duration by 40% and reduced bounce rate by 25%.
- Front-End Optimization:Enhanced website performance by 30% through advanced HTML, CSS, and JavaScript techniques, improving user experience.
- Code Reviews and Quality Assurance:Conducted weekly peer code reviews, identified critical issues, and implemented best practices to improve code reliability and maintainability.

Projects

SHOPKART:Tech Stack-Utilized **8+** key technologies, including **Bootstrap, JavaScript, Express, Mongoose, Ejs, Connect-Flash, Express-Session, and Passport.**Successfully set up my project on an **EC2 instance**.
- e-commerce site with 100+ products, **secure authentication**, and multi-session shopping cart functionality.
- Server-side Rendering: Enforced ejs and ejs-Mate to render over 8+ pages.
- Integrated **Razorpay** as the payment gateway, streamlining secure transactions for over **100** products.
- Responsive Design: Optimized the website for various screen sizes, achieving a 95% mobile compatibility rate.   Github

NodeTalk:Tech Stack-React.js, Node.js, Express.js, Socket.IO.
- Built a scalable, low-latency chat app for 100+ users with React, Socket.IO, and Node.js.
- Authentication: Applied secure **JWT**-based login for enhanced user security.
- Responsive Design: Created a mobile-first interface with Bootstrap for 90%+ mobile compatibility.   Github

EDIT:Tech Stack-Node.js, Express.js, JavaScript, Crypto Module and AES-256.
- led a web application to encrypt text using AES-256 and encode it as bitmap images (BMP) with manual header design.
- Secured data with 16-byte salt, 32-byte key, and 16-byte IV for encryption.
- Achieved efficient text-to-image and image-to-text transformation with 2 core helper functions for modularity.   Github

Technical Skills

Languages-Proficient in C++**,** HTML, CSS , **JavaScript**, **TypeScript**, SQL.
Databases and ORM's- MongoDB(**NoSQL**), MySQL(**Relational** database), Mongoose , Sequelize.
Frameworks and Libraries-Bootstrap, SCSS, Node.js, Express.js,**React.js** (v18), Redux, AJAX.
Tools and Platforms-Experienced with **Git**, **GitHub**, Postman,**AWS**(ec2),MongoDB Atlas, Jupyter Notebook, MySQL Workbench, Visual Studio Code, Firebase, **Socket.IO** and JWT.
Concepts-REST APIs , Data Structures and Algorithms **(DSA)**
Soft Skills-Debugging, efficient workload management,Collaborated with cross-functional teams to deliver projects on time and effective communication.

Certifications

- **Oracle** Cloud Infrastructure 2024 Foundations Associate
- Demonstrated **AI** innovation by developing a clothing recommendation chatbot during OSDHACK23.
- Solved over 200+ coding challenges across leading platforms like LeetCode and Codeforces.

Achievements & Leadership.

- Hackathon Achievements:Showcased innovation at **OSCHACK 23 and Walmart Sparkathon.**
- **Table Tennis** Champion: Achieved back-to-back **1st position** in school tournaments for two consecutive years.
- **JYC** (Jaypee Youth Club): Managed admissions **counseling for 200+ students** and organized cultural events.