Tushar Dev Singh

Full-Stack Developer | Technical Mentor | Problem Solver | Innovator

Jammu, India | tusharrajput4490@gmail.com | +91 914 971 8028 | linkedin.com/in/tushar-dev-singh

github.com/tusharrajput

Professional Summary

Software Developer with a strong foundation in distributed systems, scalable architecture, and cloud computing. Experienced in building innovative, customer-focused solutions using React.js, Node.js, and Firebase in agile environments. Proven ability to deliver production-ready software that improves system performance, reliability, and user experience. Passionate about solving real-world problems through technology and collaborating with cross-functional teams to drive continuous innovation.

Projects

Vyas.AI – MLaaS Platform (Internship Project)

- Led the complete front-end redesign of Vyas.AI, a cloud-based MLaaS platform aimed at simplifying machine learning model training and deployment for end-users.
- Engineered reusable UI components, creating a centralized design system that reduced development time for new features by approximately 30%.

InsightHub – Dashboard System

- Designed and implemented a dynamic dashboard system that visualizes key business metrics such as user growth, revenue trends, and project progress—all in real time.
- Implemented AJAX-based data fetching to load updated metrics from mock APIs without page reloads, simulating real-world data polling techniques used in production systems.

Technical Skills

Core Competencies: Distributed Systems, Scalable Architecture, Fault Tolerance, Agile Methodologies, Cloud Platforms (Firebase, basic AWS exposure), Cross-functional Collaboration

Languages & Frameworks: Java, Python, JavaScript, TypeScript, SQL

Front-end Technologies: React.js, Angular, DaisyUI, Tailwind CSS, SCSS, Storybook, Web Components

API & Backend: Node.js, Express.js, RESTful APIs, JWT Authentication, Firestore, Swagger/OpenAPI

Security & Quality: Firebase Authentication, API Access Control, ESLint, Prettier, Postman, Basic OWASP Practices

Content & CMS: Dynamic Content Rendering, Firebase-driven UI Updates, Beginner CMS Integration

Databases: PostgreSQL, MySQL, Firebase (Firestore)

Tools & Platforms: Git, GitHub, VS Code, Docker, Postman

Data & AI/ML Tools: Pandas, NumPy, Matplotlib, Seaborn, Jupyter, NotebooksTensorFlow, PyTorch, Scikit-learn, Keras, Hugging Face Transformers

Soft Skills: Leadership, Mentoring, Problem-solving, Agile Teamwork, Cross-functional Collaboration, Adaptability, Communication

Work Experience

Web Developer, Indian Institute of Technology – Jammu, India   Jan 2025 – May 2025

- Re-architected the front end of Vyas.AI (MLaaS platform) using React.js and DaisyUI.
- Migrated to Firebase Authentication and Firestore for secure, scalable real-time data handling.
- Cut page load times by 45% using code-splitting, lazy loading, and optimization techniques.
- Built reusable UI components for rapid feature development and consistency across views.

Full Stack Developer, Techplement – Remote, India   Jun 2024 – July 2024

- Developed and deployed distributed full-stack applications using React.js, Node.js, and Tailwind CSS.
- Integrated REST APIs with optimized backend logic for efficient client-server interaction.
- Conducted code reviews and implemented scalable, fault-tolerant logic in back-end modules.

Education

Shri Mata Vaishno Devi University Katra, India   Aug. 2021 – May. 2025
- Bachelor of Technology in Computer Science; CGPA: 7.4/10.0
- Specialization: Artificial Intelligence and Machine Learning
- Relevant Coursework: Algorithms, Machine Learning, IoT, Cloud Computing

Sp Smart School Jammu, India   April. 2020 – Mar. 2021
- Completed coursework in Physics, Chemistry, and Mathematics with distinction
- Final Aggregate: 97%

Achievements

- Delivered 45% performance boost to Vyas.AI through architectural refactoring
- Built scalable systems and reusable component libraries adopted across multiple teams
- Top performer in academic coursework and hands-on internships

Hobbies & Interests

- Photography.
- Bike riding and discovering offbeat travel routes.