VIPIN MISHRA

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EXPERIENCE

Associate Software Engineer 09/2024-Present

Tech Mahindra Limited.

- Learning Java and Spring Boot as part of project training, focusing on backend development to improve application scalability and reliability.
- Developed responsive web applications using HTML5, CSS3, and JavaScript, improving load times by 20% and ensuring compatibility across browsers and devices.
- Optimized database queries and schema design with SQL, resulting in a 15% enhancement in data processing efficiency and application performance.
- Participated in Agile and Scrum ceremonie**s**, introducing workflow improvements that reduced sprint cycle times by 10% and enhanced team productivity.
- Executed systematic testing and debugging, leveraging industry-standard practices to cut defect rates by 25% and ensure robust application performance.
- Gained proficiency in Linux environments, mastering system operations, process management, and command-line utilities for efficient development.

Trainee Software Developer 03/2024 – 08/2024

Mobiloitte Technologies India Pvt. Ltd.

- Architected and implemented web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js), leading to a 25% reduction in development time and a 30% increase in application performance.
- Crafted comprehensive API documentation, including code snippets and examples, which resulted in a 40% improvement in developer satisfaction scores, as evidenced by feedback surveys, and a 20% reduction in onboarding time for new developers.
- Led workflow enhancements during team discussions, cutting project turnaround time by 20% and promoting best practices that increased accountability and improved deliverables.
- Employed Postman for thorough API testing and debugging, achieving a 35% reduction in post-production issues and a 20% boost in service reliability.
- Collaborated closely with frontend teams, achieving a 25% improvement in user experience metrics through seamless integration between backend services and user interfaces.

EDUCATION

Bachelor of Technology (Computer Science & Engineering) 2021-2024
Shambhunath Institute of Engineering & Technology, Allahabad

Diploma (Electronics Engineering) 2018-2021
Government Polytechnic, Pratapgarh

SKILLS

- Programming Language: C, C++, Python, Java,JavaScript
- Web Development: HTML, CSS, React.js, Node.js, Express.js
- Database Management: MySQL, NoSQL (MongoDB), Mongoose
- UI/UX: Figma, Axure RP, Wireframing
- Version Control: Git, GitLab, GitHub
- Tools: Visual Studio Code, Zed, WebStorm
- Soft Skills: Collaboration, Creativity, Self-learning, Presentation
- Containerization & Deployment: Netlify, Vercel
- Cloud Services: Azure, Firebase
- Project Management & Code Quality: Trello, ESLint, Prettier

PROJECTS

Searching Visualizer

- Developed an interactive visualization tool using advanced JavaScript frameworks, enabling intuitive learning experiences for users.
- Implemented Linear Search and Binary Search algorithms, offering users a real-time comparison of algorithmic efficiencies under various scenarios, with performance improvements of up to 40%.
- Leveraged modern front-end technologies to ensure seamless user experience and future-proofed the tool by planning the integration of additional searching algorithms like Depth-First Search (DFS) and Breadth-First Search (BFS), expanding its educational utility by 30%.
- Optimized processing speeds by 25%, enhancing user engagement through visual, step-by-step breakdowns of algorithmic processes.

Automatic Irrigation System

- Designed and deployed a fully functional IoT-based Automatic Irrigation System, demonstrating expertise in hardware-software integration and smart farming technologies.
- Programmed the system using Arduino IDE, ensuring accurate sensor interfacing and efficient control of irrigation processes, reducing manual intervention by 50%.
- Implemented real-time monitoring and control, enhancing system reliability and scalability by 35%.
- Streamlined user interaction with a user-friendly interface, improving the management of irrigation schedules by 40%.
- Planned future enhancements to integrate machine learning for predictive irrigation and data analytics for optimizing water usage by up to 20%.