Abhishek Mehra

Full Stack Engineer
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Portfolio LinkedIn GitHub

Summary

Full Stack Engineer with nearly 4 years of production experience engineering scalable web applications utilizing React.js, Node.js, TypeScript, MongoDB, and AWS. Proficient in system design, performance optimization, secure authentication, third-party API integrations, AI/LLM workflows, and production troubleshooting. Demonstrated strong ownership across end-to-end software development, architecture, code quality, and project delivery.

Education

- **Sagar Institute of Research & Technology, Indore** *2017 – 2021*
  Bachelor of Technology in Information Technology
- **Masai School, Bangalore** *Nov 2021 – Jul 2022*
  Full Stack Web Development

Technical Skills and Interests

Programming Languages: JavaScript, TypeScript, HTML5, CSS3

Frameworks and Libraries: React.js, React Native, Node.js, Express.js, Redux, Redux Toolkit, Fuse Theme, Tailwind CSS, Material UI, Bootstrap

Backend and APIs: REST APIs, WebSocket, JWT, Authentication & Authorization, API Integration

Databases and Architectures: MongoDB, DynamoDB, Firebase; Monolithic, Microservices

Cloud and Infrastructure: AWS (EC2, SES, Lambda, S3, SQS, CloudWatch, Cognito, Secrets Manager), Jenkins

AI GenAI: OpenAI API (GPT-4o, Embeddings), Gemini API, Prompt Engineering, LLM Integration, AI Chatbots, AI-assisted Development (GitHub Copilot, Claude AI), MongoDB MCP

Tools and Technologies: Git, GitHub, Bitbucket, Jira, Postman, SonarQube, ESLint, Studio 3T

Experience

- **BluCursor Infotech** *Oct 2023 – May 2026*
  Full Stack Developer / Supervisor / Project Lead Indore, Madhya Pradesh
  - Supervised a team of 6 developers across 3 client projects in Real Estate and Environmental Technology, managing task allocation, technical discussions, code reviews, and delivery; improved team productivity by 10–15%.
  - Worked on a production real estate application supporting 2,000+ active users with 99.9% uptime.
  - Contributed to the migration from a single-tenant database model to a centralized multi-tenant architecture with property-level data isolation, helping reduce infrastructure costs by 70% and improve scalability.
  - Optimized MongoDB compound indexes and aggregation pipelines, reducing critical search and report query times from 30–60 seconds to ~10 seconds.
  - Developed secure REST APIs for real-time tree plantation tracking and carbon sequestration metrics, with authentication and access control using AWS Cognito and backend services deployed on AWS EC2.
  - Led the development of AI workflows using OpenAI APIs for document verification, chatbot capabilities, and real-time form assistance.
  - Improved code quality through ESLint, SonarQube, and code reviews, and used GitHub Copilot and Claude AI for debugging, documentation, and development.

- **Technokart Consultancy Services LLP** *Jul 2022 – Aug 2023*
  Full Stack Developer Mumbai, Maharashtra
  - Owned end-to-end development of enterprise application features using React.js, Node.js, TypeScript, Express.js, and MongoDB, including centralized application logging for production monitoring and troubleshooting.
  - Developed inquiry workflows based on state-specific business rules, dynamically controlling form fields, validations, and backend processing.
  - Implemented image processing to add meeting date and image-capture location to images as proof of on-site meeting attendance.
  - Investigated a production issue where image dates appeared as MM/DD/YYYY on some devices and DD/MM/YYYY on others; identified affected historical records and created an AWS S3 script to correct the dates and re-upload the images using the same filenames.
  - Automated image correction using a script, eliminating manual identification and updating of affected images.
  - Implemented queue- and stream-based processing for downloading large ZIP files/folders, reducing memory usage during large file downloads.
  - Implemented JWT/session authentication, OTP-based 2FA, RBAC, input sanitization, and centralized error handling.