

Yusuf Jameel

Senior Full-Stack AI Architect (MERN) | Cloud-Native Apps & AI Agent Engineer

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Professional Summary

Senior Full-Stack Engineer with 10 years of experience architecting and scaling enterprise-grade applications using the MERN stack (MongoDB, Express.js, React.js, Node.js). Skilled in integrating LLM APIs (OpenAI, Claude) into production applications and leveraging AI-assisted development tools to accelerate team velocity. Adept at designing RESTful APIs, cloud-native solutions on AWS, and leading cross-functional engineering teams. Passionate about exploring AI-driven development practices and building intelligent, scalable systems that enhance user experiences.

Core Technical Competencies

AI & LLM Integration

- LLM APIs: OpenAI API, Claude API integration
- AI Agents: n8n workflow automation, Multi-step agent creation, OpenAI function calling
- Prompt Engineering: Advanced techniques, System prompts, Context optimization
- AI-Assisted Development: GitHub Copilot, AI pair programming, Code generation
- Workflow Automation: n8n, AI-powered workflows, Intelligent automation pipelines
- AI Applications: Chat interfaces, Conversational AI, Natural language processing

Full Stack Development

- Frontend: React.js (Hooks, Redux, Context API), Next.js, TypeScript, Tailwind CSS
- Backend: Node.js, NestJS, Express.js, RESTful APIs, Microservices
- Databases: MongoDB, PostgreSQL, MySQL, DynamoDB

Cloud & DevOps

- Cloud Platforms: AWS (Lambda, EC2, S3, API Gateway, CDK), GCP
- Containerization: Docker, Kubernetes orchestration
- CI/CD: GitHub Actions, Bitbucket Pipelines, Automated deployment
- Monitoring: CloudWatch, Performance optimization, System observability

Architecture & Design

- Microservices architecture, API-first design, OAuth2/JWT authentication
- Serverless patterns, Asynchronous processing, Scalability optimization
- Agile methodologies, Cross-functional collaboration, Technical leadership

Professional Experience

Coforge BPS Pvt Ltd, Pune

Senior Backend Engineer | MERN Stack | AWS | API Architecture

May 2023 – Sep 2025

- Led the design and implementation of MERN stack applications, delivering scalable, secure cloud-native solutions
- Built and optimized complex RESTful and GraphQL APIs; migrated monolithic systems to microservices with serverless (AWS Lambda) patterns
- Integrated React.js (Hooks, Context API) components with backend services to ensure seamless user experiences
- **Accelerated development velocity by 30% through AI-assisted coding practices** using GitHub Copilot for code generation, documentation, and test creation
- **Built AI agents using n8n workflows** integrated with OpenAI APIs to automate business processes, data processing, and intelligent decision-making workflows
- **Designed workflow automation pipelines** using n8n for multi-step AI agent orchestration, enabling autonomous task execution and system integration
- Delivered CI/CD pipelines (GitHub Actions, Docker) for efficient testing, staging, and production releases
- Partnered with DevOps to deploy services on AWS with CDK, API Gateway, CloudFront and monitoring via CloudWatch

Virtusa Consulting Services, Pune

Lead Backend Developer | Cloud-Native Applications | MERN Stack

Aug 2022 – Feb 2023

- Oversaw full lifecycle of cloud-native enterprise applications with MERN architecture, including React.js frontends and Node.js APIs
- Championed microservices, integrating AWS Lambda, API Gateway, DynamoDB, and serverless-first design
- Led implementation of CI/CD pipelines (Bitbucket), enhancing deployment velocity and reliability
- Strengthened system security through OAuth2/JWT and robust authentication layers
- **Introduced AI-assisted development tools** to improve team coding efficiency and code quality
- **Experimented with n8n for workflow automation**, exploring AI agent creation for internal process optimization

Chenosa Information Services, Mumbai

Senior Software Engineer | Backend-Focused | SaaS Platforms

Aug 2020 – July 2022

- Directed backend engineering for data-driven SaaS solutions with React/Node.js stack integration
- Designed and maintained high-performing RESTful and GraphQL APIs for client-facing platforms
- Mentored junior developers, improving team technical maturity in cloud, security, and scalability principles
- Researched emerging AI technologies and their potential applications in SaaS product development

Broadstairs IT Solutions, Pune

Backend Developer / Tech Lead | Cloud & Microservices

Jan 2019 – Aug 2020

- Led backend and infrastructure efforts for scalable MERN stack platforms
- Architected and deployed microservices on AWS, integrating React.js UIs with Node.js APIs for enterprise clients
- Defined API-first contracts and led cross-functional teams through Agile delivery cycles

Earlier Experience:

- TailoredTech Solutions, Pune – Software Developer (Node.js, MySQL)
- KPIT Technologies, Pune – Associate Software Engineer (Java, Node.js)

Featured Projects

AI Chat Support Application

Role: Full-Stack Developer | **Duration:** Personal Project (Ongoing)

GitHub: github.com/usufjameel/ai-chat-support

- Developed a production-ready AI-powered chat support application integrating OpenAI API for intelligent customer interactions
- Built full-stack solution using React.js frontend and Node.js backend with real-time messaging capabilities
- Implemented prompt engineering strategies to optimize AI response quality and context handling
- Designed scalable architecture supporting multiple concurrent chat sessions with persistent conversation history
- Demonstrated hands-on experience with LLM API integration, error handling, and rate limiting best practices

Technologies: React.js, Node.js, OpenAI API, MongoDB, WebSockets

Key Contributions:

- End-to-end LLM API integration with production-grade error handling
- Real-time chat interface with intelligent AI responses
- Scalable architecture for concurrent user sessions
- Practical prompt engineering implementation

Cloud Infrastructure Migration for Enterprise Application

Role: Senior Technical Consultant | **Duration:** 14 months

- Successfully led the migration of a high-traffic enterprise application to AWS Cloud Infrastructure, resulting in a 30% reduction in infrastructure costs while significantly improving scalability and system performance
- Oversaw deployment automation through CDK and enhanced operational efficiency across environments
- **Leveraged GitHub Copilot** for infrastructure-as-code development and deployment script generation

Technologies: AWS (EC2, Lambda, S3, CDK), Docker

Key Contributions:

- Reduced operational costs by 30%
- Improved scalability and performance
- Enabled automated deployment processes

Database Migration from On-Premises to Cloud

Role: Senior Technical Consultant | **Duration:** 8 months

- Directed the end-to-end database migration to AWS Cloud, enhancing data accessibility and reducing maintenance costs by 20%
- Ensured data integrity and risk mitigation through careful planning and robust pipeline strategies
- **Utilized AI-assisted coding** for migration script development and data validation logic

Technologies: Node.js, TypeScript, AWS RDS, DynamoDB, Data Pipelines

Key Contributions:

- Reduced maintenance costs by 20%
- Enhanced data accessibility and reliability
- Delivered robust risk assessment and data integrity strategies

Contract Collaboration Platform

Role: Backend Development Lead | **Duration:** 7 months

- Architected and developed a platform facilitating contract negotiations and agreement workflows between parties
- Delivered robust collaboration and document management features to streamline the contracting process

Technologies: Node.js, React.js, MySQL

Key Contributions:

- Streamlined contract negotiation processes
- Enabled structured collaboration and document management workflows
- Delivered scalable and maintainable backend architecture

Education

Bachelor of Engineering (Computer Science and Engineering)

College of Engineering and Technology, Akola | June 2015

Certifications

- **AI Pair Programming with GitHub Copilot** – Microsoft/GitHub
- **Advanced Prompt Engineering Techniques** – Professional Development
- **Docker Foundations Professional Certificate**

Leadership & Soft Skills

- **Technical Leadership:** Leading cross-functional teams and mentoring developers on best practices
- **AI-Enhanced Development:** Championing AI-assisted coding tools to improve team velocity
- **Problem Solving:** Analytical approach to complex system design and architectural challenges
- **Cross-Functional Collaboration:** Bridging technical and business teams for successful delivery
- **Agile Excellence:** Scrum methodologies and rapid iteration in fast-paced environments
- **Continuous Learning:** Passionate about emerging AI technologies and modern development practices