

Suresh Kumar

Software Engineer

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PROFILE:

Innovative software engineer specializing in full-stack development and AI-driven solutions. Experienced in building scalable web applications, intelligent systems, and modern cloud-native architectures using cutting-edge technologies including MERN stack, AI/ML frameworks, and microservices.

TECHNICAL SKILLS:

- **Backend:** Node.js, Express.js, NestJS, Java, Spring Boot, Hibernate, JPA, Python
 - **AI/ML:** TensorFlow, PyTorch, OpenAI API, Langchain, Model Context Protocol (MCP)
 - **DevOps:** AWS, Docker, Jenkins, CI/CD
 - **Database:** MySQL, MongoDB, PostgreSQL, Vector Databases
 - **Frontend:** React.js, Next.js, Angular.js, PWA Development
 - **Other:** WebSocket, RabbitMQ, Bull MQ, RESTful APIs, Microservices
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EXPERIENCE:

EnAct e-Services Pvt Ltd | Jan 2022 – May 2024

- Engineered scalable backend architectures using Node.js, Express.js, and NestJS, improving system performance.
- Developed and optimized RESTful APIs and implemented AI-powered features for enhanced user experience
- Integrated secure payment gateways (Stripe) and third-party APIs (Twilio, Google APIs, OpenAI)
- Automated deployment pipelines using Docker, Jenkins, and AWS, reducing deployment time.

DuckMa Srl (Rezzato, Italy) | May 2024 – Present

- Contributing to full-stack development of intelligent digital products including AI-powered mobile apps and IoT platforms
- Implementing machine learning models and AI integrations across healthtech, fintech, and IoT domains
- Leveraging modern CI/CD practices with Docker, AWS, and AI/ML deployment pipelines
- Developing Java-based microservices for backend systems, leveraging Spring Boot and PostgreSQL.

PROJECTS:

AI Content Optimizer | *Python, FastAPI, OpenAI API, TensorFlow*

Built an intelligent content optimization platform integrating OpenAI GPT models for automated content generation and evaluation. Designed and curated training datasets to fine-tune AI outputs, resulting in 35% improved engagement rates. Implemented custom ML models with TensorFlow for performance prediction and automated A/B testing.

TransactFlow | *Node.js, React.js, MySQL, WebSocket, Bull MQ*

Developed a real-time transaction management system with automated Laravel session handling. Implemented WebSocket for live balance updates and Bull MQ for efficient async transaction processing. Created responsive React.js interface with comprehensive transaction monitoring and reporting features.

Smart Analytics Dashboard | *Python, React.js, PostgreSQL, Langchain, MCP*

Developed an AI-powered analytics dashboard enabling natural language querying and real-time data visualization. Leveraged LangChain and MCP to implement structured multi-turn conversation flows for business intelligence use cases. Created automated pipelines for predictive analytics and insight generation, improving decision-making efficiency.

GoCluggo | *Angular PWA, NestJS, MongoDB, WebSocket*

Developed a progressive web application connecting artists and club managers through an intelligent matching platform. Built with Angular PWA for offline functionality and real-time chat system using WebSocket. Implemented NestJS backend with advanced user authentication, profile management, and AI-powered recommendation engine for better artist-venue connections.

Hotel-Zone Access Manager | *Next.js, NestJS, PostgreSQL, JWT*

Created a comprehensive hotel access management system enabling zone-based access control for guests, managers, and administrators. Developed role-based authentication with JWT, real-time booking management, and dynamic access permissions for different hotel areas. Implemented audit trails and analytics dashboard for enhanced security monitoring.

Skill-Forge | *Node.js, Express.js, MySQL, Stripe, AWS, Docker*

Built a full-stack learning platform enabling creators to provide individual, group, and subscription-based sessions. Implemented secure Stripe payment processing, RabbitMQ for async job handling, and Docker containerization. Integrated Google and Twilio APIs for seamless communication workflows.

Enterprise HR Management System | *Java, Spring Boot, Hibernate, PostgreSQL, Angular*

Developed a complete HR management platform for enterprise clients. Implemented role-based authentication, employee onboarding workflows, payroll automation, and leave management. Built microservices architecture with Spring Boot and Hibernate ORM. Integrated reporting dashboards using Angular and REST APIs for real-time analytics.