

GAUTAM KUMAR

Senior Full Stack Developer | AI/ML Engineer

+91 7319604550 gautamkumar731960@gmail.com LinkedIn: gautamcodes24

PROFESSIONAL SUMMARY

Results-driven Senior Full Stack Developer and AI/ML Engineer with 2.6+ years of experience architecting and deploying enterprise-grade web applications, microservices, and AI-powered solutions. Expert in modern JavaScript frameworks, Python backend development, cloud computing (AWS, GCP), and cutting-edge AI technologies including LangGraph, RAG systems, and LLM integration. Proven leadership in cross-functional teams, delivering scalable solutions for Fortune 500 clients and government agencies. Strong expertise in DevOps, CI/CD pipelines, containerization, and agile methodologies.

CORE TECHNICAL COMPETENCIES

Programming Languages: Python, JavaScript, TypeScript, SQL, HTML5, CSS3, C++, Java

Backend Technologies: FastAPI, Flask, Django, Node.js, Express.js, RESTful APIs, GraphQL, Microservices Architecture

Frontend Technologies: React.js, Next.js, Vue.js, Angular, Redux, HTML5, CSS3, SASS, Bootstrap, Tailwind CSS

AI/ML & Data Science: Agentic AI, RAG Systems, LangGraph, Crew AI, OpenAI GPT-4, Machine Learning, Natural Language Processing, Computer Vision

Cloud & DevOps: AWS (EC2, S3, Lambda), Google Cloud Platform, Docker, Kubernetes, Jenkins, Git, CI/CD, Linux, Nginx

Databases: MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch, Database Optimization, Query Performance Tuning

Development Methodologies: Agile, Scrum, Test-Driven Development (TDD), Code Review, Version Control, Software Architecture

PROFESSIONAL EXPERIENCE

Senior Full Stack Developer | AI/ML Engineer

February 2023 - Present

Deloitte USI, Bengaluru, India

AI-Powered Educational Platform (AI-Tutor) - San Jose State University

- Architected and developed enterprise-scale AI-driven educational platform enhancing learning outcomes for 1000+ students
- Designed responsive web application enabling professors to create courses, upload multimedia content, and manage student assignments
- Implemented advanced RAG (Retrieval Augmented Generation) systems with vector databases for contextual AI responses
- Built comprehensive features including user authentication, session management, real-time chat, quiz engine, and interactive dashboards
- Led frontend development using React.js, Redux state management, and modern UI/UX design principles
- Developed scalable RESTful APIs using Flask framework with JWT-based authentication and authorization
- Orchestrated cloud deployment using Docker containerization and Google Cloud Platform infrastructure
- Implemented real-time chat functionality with personalized conversation history and session persistence for 1000+ concurrent users
- Achieved 99.8% uptime and sub-2-second response times through performance optimization and caching strategies

Government Policy AI Assistant (Olympus-Medicaid) - US Federal Agency

- Engineered AI-powered conversational interface for US Government Medicaid and SNAP policy automation serving 10,000+ citizens
- Developed secure document upload system with OCR integration and automated form field population reducing data entry by 50%

- Integrated cutting-edge Agentic AI using LangGraph for intelligent policy interpretation and multi-step reasoning
- Built responsive frontend applications using React.js and Vue.js with modern state management and component architecture
- Developed high-performance backend APIs using FastAPI with async/await patterns and database connection pooling
- Deployed production-ready solution on AWS EC2 with auto-scaling, load balancing, and monitoring achieving 99.9% uptime
- Optimized MySQL database performance through query optimization, indexing strategies, and connection pooling reducing response time by 20%
- Implemented enterprise-grade security features including data encryption, secure file handling, and compliance with government standards

Autonomous Software Engineering Platform (Virtual Engineering Team)

- Pioneered innovative AI-driven platform simulating complete software development lifecycle with multi-agent collaboration
- Designed and implemented virtual engineering agents specializing in frontend development, backend architecture, QA testing, and project management
- Integrated React.js frontend with Flask backend enabling automated code generation, testing workflows, and deployment pipelines
- Developed sophisticated multi-agent orchestration system reducing manual development effort by 60% and accelerating delivery cycles
- Implemented continuous integration workflows with automated testing, code quality checks, and deployment automation

Intelligent Career Assistant & Professional Networking Bot

- Built sophisticated AI-powered personal branding platform integrating OpenAI GPT-4 for professional networking and career consultation
- Developed real-time engagement tracking system with automated push notifications via Pushover API increasing user interaction by 75%

- Implemented advanced lead capture and CRM integration for streamlined professional networking and follow-up management
- Created modern, responsive web interface using Gradio framework with seamless user experience and mobile optimization
- Integrated comprehensive professional profile data including LinkedIn API integration for authentic, context-rich responses
- Deployed scalable solution on HuggingFace Spaces with CDN optimization and global accessibility

EDUCATION

Master of Computer Application (MCA) - Artificial Intelligence Specialization

July 2023 - August 2025

JAIN University, Bengaluru, India

CGPA: 9.05/10.0 (First Class with Distinction)

Relevant Coursework: Machine Learning, Deep Learning, Data Structures & Algorithms, Software Engineering, Database Management Systems

Bachelor of Computer Application (BCA)

June 2019 - August 2022

REVA University, Bengaluru, India

CGPA: 8.82/10.0 (First Class with Distinction)

Relevant Coursework: Object-Oriented Programming, Web Development, Database Systems, Software Engineering, Computer Networks

PROFESSIONAL CERTIFICATIONS

- Microsoft Certified: Azure AI Engineer Associate (AI-102) - Cloud AI Solutions, Cognitive Services, Machine Learning
- Full Stack Web Development Certification - Udemy (React.js, Node.js, MongoDB, Express.js)
- Generative AI and Large Language Models - Udemy (GPT, LangChain, Vector Databases, Prompt Engineering)
- AWS Cloud Practitioner (In Progress) - Cloud Computing, DevOps, Infrastructure as Code

AWARDS & RECOGNITION

- Outstanding Performance Award (2x) - Deloitte USI | Recognized for exceptional project delivery and technical leadership
- Applause Award (2x) - Deloitte USI | Acknowledged for innovative AI solutions and client satisfaction
- Spot Award (2x) - Deloitte USI | Awarded for quick problem resolution and team collaboration
- Technical Excellence Recognition - Led successful deployment of enterprise AI solutions

KEY TECHNICAL ACHIEVEMENTS

- Architected microservices-based applications serving 10,000+ concurrent users with 99.9% uptime
- Implemented CI/CD pipelines reducing deployment time by 70% and improving code quality
- Led cross-functional teams of 5-8 developers in agile development environments
- Optimized application performance achieving sub-2-second page load times through caching and code optimization
- Mentored junior developers in modern web development practices and AI/ML integration
- Contributed to open-source projects and maintained 95%+ code coverage in test suites