MOHAMMED THAMEEM ANSAR

Senior FullStack Developer & GenAI Engineer
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PROFESSIONAL SUMMARY

Senior Full Stack Developer with over 3 years of experience specializing in Generative AI solutions and cloud-native applications. Recently promoted to GenAI Engineer with deep expertise in AWS Bedrock, RAG architectures, and LLM integrations. Proven ability to design, develop, and deploy scalable enterprise-grade applications using the MERN stack. Skilled in optimizing performance, implementing AI-driven features, and leading agile teams to deliver high-impact solutions.

TECHNICAL EXPERTISE

Full Stack Development

- **Frontend:** React.js, Next.js, TypeScript, HTML5, CSS3, Vite, Ant Design, Tailwind CSS, Material UI
- **Backend:** Node.js, Express.js, NestJS, Python (intermediate)
- **Databases:** MongoDB, MySQL, Sequelize, Knex

GenAI & Machine Learning

- **AWS Bedrock:** Expert-level implementation and deployment of foundation models **AI**
- **Technologies:** Retrieval-Augmented Generation (RAG), Vector Databases (Pinecone), Prompt Engineering
- **LLM Integration:** Model selection, fine-tuning, and production deployment strategies

Cloud & DevOps (AWS)

- **Core Services:** Lambda, S3, IAM, CloudWatch, Secrets Manager **AI**
- **Services:** AWS Bedrock (Expert), SageMaker (basic)
- **Infrastructure:** Serverless architectures, API Gateway, CloudFormation (basic)

Development Tools & Practices

- **Version Control:** Git, GitHub (advanced workflows, branching strategies)
- **Methodologies:** Agile/Scrum, CI/CD pipelines
- **Project Management:** Jira, Trello, Asana, Sprint Planning

EDUCATION

Bachelor of Science (BSC) – Computer Science
Sadhakathullah Appa college
Manonmaniam University, Tirunelveli

PROFESSIONAL EXPERIENCE

GenAI Engineer | Kaay Labs, Chennai | *May 2023 – Present*

GenAI & AWS Bedrock Specialization

- Architected and deployed production-grade GenAI solutions using AWS Bedrock, integrating multiple foundation models for enterprise use cases.
- Designed and implemented RAG systems combining Pinecone vector databases with LLMs, improving response accuracy by 45%.
- Built serverless AI pipelines using AWS Lambda and Bedrock APIs, handling 10K+ daily requests with sub-2s latency.
- Developed prompt engineering frameworks and safety guardrails for enterprise LLM applications.
- Created custom AI agents for document analysis, semantic search, and intelligent data extraction.

Full Stack Development

- Led full-cycle development of scalable web applications using the MERN stack, supporting 50K+ monthly active users.
- Architected microservices with NestJS and Node.js, enhancing modularity and maintainability.
- Built responsive, accessible front-end interfaces using React.js, Next.js, and TypeScript.
- Optimized performance through code splitting, lazy loading, and caching, reducing load times by 40%.

Full Stack Developer | Kaay Labs, Chennai | *Jan 2021 – present*

- Developed and maintained enterprise web applications using React.js, Node.js, and MongoDB. Implemented RESTful APIs and integrated third-party services for payment, authentication, and analytics. Enhanced UI/UX with reusable components and responsive design principles.
- Collaborated with QA teams to ensure high-quality releases through automated testing and CI/CD pipelines.

PROJECT HIGHLIGHTS

- **AI-Powered Knowledge Assistant:** Built a RAG-based chatbot using AWS Bedrock and Pinecone for enterprise document retrieval.
- **Serverless Analytics Dashboard:** Developed a real-time analytics dashboard using AWS Lambda, API Gateway, and React.js.
- **Microservices Migration:** Led migration of monolithic architecture to microservices using NestJS and Docker, improving scalability.