

# Shyam Kumar V M

FULL-STACK DEVELOPER (BACKEND-HEAVY | 4 YEARS EXPERIENCE)

+91 9895883315 | shyamenk@gmail.com | Kochi, India  
linkedin.com/in/shyamenk | github.com/shyamenk | shyamenk.in

## PROFESSIONAL SUMMARY

Full-Stack Developer with 4 years of experience specializing in backend-heavy systems, AWS serverless architectures, and scalable APIs for healthcare platforms. Proven track record of building HIPAA-compliant production systems, optimizing database performance by 40%, and delivering reliable applications used by 1,000+ users. Strong in system design, cloud infrastructure, and performance optimization with a focus on real-world business impact.

## TECHNICAL SKILLS

**Backend & APIs:** Node.js, Python, FastAPI, Express.js, RESTful APIs, Serverless Architecture

**AI & LLM Frameworks:** LangChain, LangGraph, Google Gemini Pro, RAG (Retrieval Augmented Generation), ChromaDB, MCP Protocol

**Cloud & DevOps:** AWS (Lambda, S3, EC2, RDS, DynamoDB, CloudFront, SES, CloudFormation), Docker, AWS Fargate, ECS, CI/CD, GitHub Actions

**Databases:** PostgreSQL, MongoDB, Drizzle ORM, Database Design, Query Optimization, Indexing and Partitioning

**Frontend:** Next.js, React, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Shadcn/UI

**Tools & Integrations:** Stripe Payments, Webhook APIs, Real-time Analytics, Performance Optimization, Sharp Image Processing

## PROFESSIONAL EXPERIENCE

<b>Senior Full-Stack Developer</b> <i>CyberSapient Technologies</i>	<b>Feb 2024 – Present</b> <i>Remote</i>
<ul style="list-style-type: none"><li>Led backend architecture and development of a HIPAA-compliant Electronic Health Records (EHR) platform serving 1,000+ healthcare providers and processing 5000+ patient records daily with zero security incidents</li><li>Improved PostgreSQL performance through strategic indexing and table partitioning, resulting in 40% faster query response times</li><li>Designed and implemented a serverless CSV data processing pipeline using AWS Lambda, S3, and CloudFormation for automated ingestion workflows</li><li>Established CI/CD pipelines with GitHub Actions, Docker, and AWS Fargate (ECS), reducing build and deployment cycles to approximately 8 minutes</li><li>Integrated DrChrono Webhooks and AWS SES to automate data synchronization and email notifications, reducing manual data entry by 75%</li><li>Built a real-time analytics dashboard using Next.js and Shadcn/UI, improving operational metric access speed by 30%</li><li>Made architectural decisions balancing serverless versus containerized workloads based on cost, scalability, and deployment velocity</li></ul>	
<b>Full-Stack Developer</b> <i>Ethernex IT Solution</i>	<b>Jan 2022 – Jan 2024</b> <i>Remote</i>
<ul style="list-style-type: none"><li>Developed responsive, production-ready user interfaces using CSS Grid and Flexbox across desktop, tablet, and mobile devices</li><li>Collaborated with UI/UX designers to deliver business dashboards for daily operations and KPI monitoring</li><li>Built RESTful APIs for an e-commerce platform using Node.js with robust validation, error handling, and rate limiting</li><li>Optimized MongoDB performance through indexing, query tuning, and improved data modeling strategies</li><li>Created automated CSV data parsers to streamline data ingestion and database synchronization processes</li></ul>	

# KEY PROJECTS

<b>Tech Blog AI — AI-Powered Technical Content Assistant</b>	<b>2025</b>
<i>Python 3.11+, FastAPI, LangChain, LangGraph, Gemini Pro, ChromaDB, PostgreSQL, Redis, Docker, RAG</i>	<i>AI Engineering Project</i>
<ul style="list-style-type: none"><li>• Built an AI-powered system to automate technical blog research, outline generation, draft writing, and SEO optimization using LLM agents</li><li>• Designed multi-step, stateful agent workflows (Research → Outline → Draft → Review → SEO) using LangGraph for deterministic orchestration</li><li>• Implemented Retrieval Augmented Generation (RAG) with ChromaDB to provide research-backed, citation-aware content generation</li><li>• Integrated Google Gemini Pro with structured output validation using Pydantic models, reducing response inconsistencies by 95%</li><li>• Reduced end-to-end content creation time from 6–8 hours to under 3 minutes through full workflow automation</li></ul>	

<b>Serverless Image Transcoding Pipeline</b>	<b>2025</b>
<i>AWS Lambda, S3, CloudFront, DynamoDB, Node.js, Sharp, CloudFormation</i>	<i>Cloud Architecture Project</i>
<ul style="list-style-type: none"><li>• Architected an event-driven serverless image processing pipeline to automatically transcode uploads into optimized formats (WebP, JPEG)</li><li>• Handled up to 1,000 requests per second with 2–5 second processing latency for 800×600 images</li><li>• Achieved approximately 75% image size reduction and sub-100ms global delivery using CloudFront</li><li>• Designed cost-optimized infrastructure leveraging serverless patterns, achieving near-zero operational costs</li></ul>	

# EDUCATION

<b>Mangalam College of Engineering</b>	<b>2005 – 2009</b>
<i>Bachelor of Technology in Computer Science</i>	<i>Kerala, India</i>