

KAUSHIK M N

SUMMARY

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Software and DevOps Engineer with expertise in full-stack development, backend architecture, and cloud infrastructure. Skilled in building scalable microservices, integrating AI/ML workflows, and designing robust CI/CD pipelines. Proven ability to own the entire product lifecycle—from developing high-throughput APIs and real-time systems to managing AWS deployments, containerization, and observability stacks.

SKILLS

- **Backend Development:** NestJS, Express.js, Node.js, FastAPI, Python, REST/gRPC APIs, Microservices, Spring Boot
- **DevOps & Cloud:** AWS (EC2, S3, VPC, IAM, Cognito, SSM, Route53, ECS Fargate), Docker, Amazon ECR, GitLab CI/CD, GitHub Actions, Prometheus, Grafana, Cloudflare, Kubernetes, Terraform
- **Databases & Queues:** MongoDB, PostgreSQL (exposure), Redis, BullMQ, TypeORM
- **AI/ML & Integrations:** CoquiTTS, NeuTTS, Speech Models, LLM Integrations, Ringg.AI, Twilio
- **Frontend:** React.js, Next.js, Figma, Angular.js
- **Languages:** JavaScript, TypeScript, Python, C++

PROFESSIONAL EXPERIENCE

Lead Product Engineer

Feb 2026 – Present

Cumma,

- **System Design & Architecture:** Architected scalable backend microservices and clean domain-driven REST/gRPC API layers to support core platform workflows and multi-tenant expansion.
- **DevOps & CI/CD Pipelines:** Configured GitLab CI/CD pipelines with custom runners to execute automated builds, containerizing microservices into Docker images and pushing to Amazon ECR, reducing manual deployment time by **50%** and ensuring zero-downtime AWS deployments.
- **Cloud Infrastructure & Security:** Designed secure AWS VPC infrastructure across dual private subnets using AWS SSM Session Manager to eliminate public SSH exposure, and successfully executed a full application migration from a Hostinger VPS.
- **Agentic Voice Automation:** Engineered an automated agentic voice caller workflow using Ringg.AI and Twilio, handling real-time conversational triggers, outbound call orchestration, and webhook state updates.
- **Async Workflows & Queues:** Decoupled heavy synchronous workloads into background jobs using BullMQ, dedicated worker nodes, and Redis caching, drastically reducing API response latency and accelerating OTP delivery.
- **Observability & Metrics:** Deployed a Prometheus and Grafana monitoring stack to track production system health, API latencies, worker queue bottlenecks, and node performance.
- **Invoicing & Payments:** Built an in-house invoicing engine by containerizing Headless Chromium and Puppeteer with Docker to stream real-time subscription invoices, integrating end-to-end payment gateways for multi-tier recurring billing by reducing external API costs.

Software Engineer (Backend & AI/ML Developer)

Aug 2025 – Feb 2026

Noukha Technologies

- Contributed as a core Backend & AI/ML developer across multiple production projects, building scalable microservices using NestJS, FastAPI, Python, MongoDB, and AWS EC2.
- Transitioned rapidly from Intern to Software Engineer (within 3 months) by delivering production-quality backend systems, continuous integrations, and secure authentication workflows (AWS Cognito, OAuth).

Key Project Contributions:

- **IntuitionX (AI Voice Assistant):** Built the core Voice Assistant system featuring STT → LLM reasoning → custom fine-tuned CoquiTTS model. Integrated real-time WebSocket streaming for sub-second continuous speech interaction. Fine-tuned custom voice datasets using Google Colab GPUs.
- **Naachi (Real-Time Chat):** Lead backend contributor for chat architecture. Designed a full authentication system using Cognito User Pools (User/Admin roles) and developed core logic in user/partner microservices with dynamic database injection.
- **CupTime & Naga Limited:** Resolved critical backend bottlenecks causing high API usage. Optimized database queries, APIs, and server logic to heavily improve response times and system stability.

Full-Stack Developer Intern

Jun 2025 – Aug 2025

BCBUZZ Technologies

- Built a cybersecurity SaaS platform, developing a TypeScript and React UI integrated with Claude, Builder.io, and Bolt.ai.
- Designed secure REST APIs with strict validation/authentication, improved SQL database schemas, and optimized queries.
- Resolved over 85% of reported bugs and implemented automated CI/CD pipelines, reducing manual release errors by 40%.

EDUCATION

Amrita Vishwa Vidyapeetham

2026 – 2028

Master of Business Administration (MBA) – AI

Focus: Product Management, Human Resources

Bharath Institute of Higher Education and Research

2021 – 2025

Bachelor of Technology in Industrial Biotechnology — CGPA: 8.67

Major Thesis: *Developing a Genomic Pipeline for Non-Tuberculosis Mycobacterium Kansasii*