Vivek Pawar

Senior Software Development Engineer | 6+ Years Experience

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Professional Summary

Senior Software Engineer with 6+ years of experience architecting scalable microservices, optimizing cloud infrastructure, and delivering high-impact solutions. Specialized in Apollo GraphQL Federation, Kafka-based event systems, and full-stack development with React, Node.js, and AWS. Proven track record of reducing costs by 96%, improving performance by 83%, and scaling systems to handle 100x traffic growth.

Technical Skills

- **Languages:** JavaScript, TypeScript, HTML, CSS, SQL, Shell Script
- **Frontend:** React, Next.js, Angular, Tailwind CSS, Redux, Shadcn UI, Next UI, React Admin
- **Backend:** Node.js, NestJS, Express.js, Fastify, Apollo GraphQL, RESTful APIs
- **Databases:** PostgreSQL, MySQL, MSSQL, MongoDB, Redis
- **Message Queues & Events:** Apache Kafka, Bull Queue
- **Authentication:** JWT, OAuth 1.0/2.0, PassportJS
- **ORM & Data:** TypeORM, Prisma ORM, DataLoader & Batching, GraphQL Federation
- **DevOps & Cloud:** AWS (ECS, RDS, S3, CloudFront, Route 53, ECR, VPC, Amplify), Docker, Docker Multistaging, Distroless Images, GitHub Actions, Nginx, fck-NAT
- **Monitoring & Logging:** New Relic, Pino Logger, CloudWatch
- **Tools:** Git, GitHub, JMeter, Figma, class-validator
- **Methodologies:** Microservices Architecture, GraphQL Schema-first & Code-first, Agile/Scrum, Code Review

Professional Experience

Senior Software Development Engineer, BridgeNext (Mastery Logistics Systems) – Pune, IND — April 2024 - Present

- Architected and developed microservices using **Apollo GraphQL Federation**, building scalable distributed systems
- Built **Kafka-based event streaming systems** with producers and consumers for real-time data processing
- **Performance optimized 60+ microservices**, improving system responsiveness and reducing latency
- Designed complex **tree-structured data management system** for hierarchical relationships at scale
- Led comprehensive **security initiative**, migrating vulnerable packages and eliminating security vulnerabilities
- Facilitate internal stand-ups and collaborate in client backlog grooming sessions

Software Development Engineer, BridgeNext (Mastery Logistics Systems) – Pune, IND — Aug 2022 - March 2024

- **Resolved critical production memory leak**, reducing service memory from 12GB to 2GB (**83% reduction**), dramatically improving performance and saving infrastructure costs
- Architected service-wide **UUID validation framework** using class-validator and custom NestJS pipes
- Developed high-impact **GraphQL queries and mutations** following schema-first design principles
- Created **Kafka event streaming pipelines** for real-time cross-service data synchronization
- Authored **database migration scripts** for schema evolution and performance optimization including strategic indexing
- Actively participated in UAT cycles and production deployments with zero-downtime releases

Software Development Engineer, Yappes Technologies – Bangalore, IND — Dec 2019 - July 2022

- Built **version control system from scratch** for client APIs using SAML conventions
- Developed **ticket management system** using Katak framework for client-product communication
- **Led migration from monolithic to microservices architecture**, improving scalability and deployment flexibility
- Developed API Gateway, API Manager, and analytics dashboards that **secured VMware partnership**
- Enabled **10+ successful POCs** with enterprise clients through feature development

- Conducted technical interviews and contributed to engineering team growth

Software Engineer Intern, Yappes Technologies – Bangalore, IND   Sept 2019 - Nov 2019
- Completed intensive onboarding in web development with hands-on AngularJS and Node.js tasks

Key Projects

IAMJ.in - Medical Journal Platform Modernization | *Full-Stack Developer & DevOps Engineer*
- Single-handedly designed, architected, developed, and deployed complete platform modernization
- **Achieved 100x SEO growth**: Google impressions increased from <5K/month to **500K+/month**
- Migrated from legacy PHP to **Next.js** frontend and **NestJS** backend with 17 modular REST APIs
- Implemented SEO optimization for **14,000+ research articles** using dynamic metadata and structured data
- Migrated MySQL to PostgreSQL with complete schema normalization and **full-text search using pg_trgm vectors**
- Built comprehensive **React Admin panel with granular RBAC** for multi-role user management
- Developed complete **manuscript submission and peer review system** with automated reviewer assignment
- Extracted PDF content using regex-based OCR for 14,000+ articles enabling advanced search capabilities
- **Cost optimization**: Reduced monthly NAT costs from $93 to $4 (**96% reduction**) using fck-NAT on t4g.nano
- Built production AWS infrastructure: ECS with ALB, RDS PostgreSQL, S3 + CloudFront, ECR, Route 53
- Implemented private subnet architecture with VPC endpoints for enhanced security
- Deployed admin panel on AWS Amplify with CI/CD via GitHub Actions
- Tech Stack: Next.js, NestJS, PostgreSQL, React Admin, AWS (ECS, RDS, S3, CloudFront), Tailwind CSS, Shadcn UI

Education

Cauvery Institute of Technology, Mandya – BE in Computer Science   2015 - 2019
- CGPA: 7.45/10.0

Awards & Recognition

- **Spot Award - FY 2024** (BridgeNext): Recognized for exceptional contributions to security enhancements and successful delivery of complex features
- **Spot Award - FY 2023** (BridgeNext): Awarded for resolving critical production issues and driving significant infrastructure cost savings

Publications

Build Your Docker Images 1000% Smaller Using Multi-staging and Distroless Images – *Medium*