Gitesh Wankhede

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Summary

Software Engineer with **3+ years** of experience building scalable, secure, and production-grade systems. I bring hands-on expertise in **microservices architecture, gRPC-based communication, distributed databases, and AI-powered semantic search using LLMs and FAISS**. I've contributed to accessible platforms used **by 50K+** users, resolved 50+ security vulnerabilities, and mentored peers on engineering best practices. I'm excited to apply these skills to build resilient, high-impact systems.

Skills

- **Languages:** Python, JavaScript, TypeScript, Java, SQL
- **CS Fundamentals:** Data Structures, Algorithms, System Design, OOP
- **Architecture:** Microservices, gRPC, Event-Driven, Batch Processing, Micro-frontend, Monolith
- **Technologies:** Docker, RabbitMQ, FAISS, MinIO, Git, CI/CD, REST, WebSocket, OpenAI APIs
- **Databases:** PostgreSQL, MongoDB, MySQL
- **Frameworks:** FastAPI, Angular, React, Next.js, Node.js
- **Platforms:** AWS, Firebase, Google Cloud CLI

Experience

Software Engineer, EPAM Systems July 2022 – Present
Mastercard *Pune, IN*

- Faced with tight accessibility deadlines, led resolution of **100+ WCAG issues** using GenAI tools, resulting in a compliant product used by **50K+ daily users**.
- To reduce security vulnerabilities, collaborated across teams to adopt secure coding standards and resolved **50+** issues flagged by **Checkmarx**, reducing monthly vulnerability rate by **20%**.
- In a micro-frontend environment, maintained **90%+ test coverage** and led CI/CD integration, enhancing deployment reliability and system resilience.
- Implemented router caching and lazy loading for high-traffic apps, reducing load times from **5s to 3.5s** and improving performance by **30%**.
- Diagnosed and resolved critical deployment bugs with senior engineers, resulting in **80% drop** in production defects.
- Facilitated sprint planning and retrospectives, and mentored new engineers, enhancing team collaboration and engineering maturity.

Projects

Smart Coding Interview Platform (In Progress) Present

- Conceptualized and architected a real-time distributed design plan, and currently in the process of implementing a Real-time collaboration using WebSocket for over **60%** better latency than REST.
- Architected secure, scalable system using **FastAPI**, **Docker**, **PostgreSQL**, and **API Gateway**, ensuring service isolation and observability.
- Integrated Artificial Intelligence techniques like semantic search and **Natural Language Processing (FAISS + sentence-transformers)** for contextual question retrieval.
- Integrated **RabbitMQ** for async code evaluation, supporting horizontal scaling and multi-language execution (C++, Python).
- Implemented gRPC with version-safe schema evolution to maintain forward/backward compatibility in microservices.
- Added **MinIO**-backed file storage for stateless containers, improving modularity and cost control.

SME Boost – Hackathon Project June 2025

- Led 4-day hackathon project from ideation to deployment; used **Docker**, **Firebase**, and **Google Cloud CLI** for full-stack delivery.
- Reduced OpenAI integration latency by **60%** via **Server-Sent Events**, cutting response times from **30s to 7s**.
- Built pre-commit automation with **Husky**, reducing bugs by **30%**.
- Used **OpenAI APIs** to auto-generate marketing assets, lowering manual content creation effort by **50%**.

Open Source Contributions

- Resolved playlist sort/filter bugs in **Freetube** (GitHub #5198, #5595) by engineering local playlist logic in **React.js**, reducing network load by **70%**.
- Contributed layout fix in **Bootstrap** (#41243) by adding CSS inheritance, improving modern browser consistency.

Education

BE – Mechanical Engineering, D Y Patil School of Engineering 2022

Relevant Coursework: AWS cloud practioner, DSA, computer science, Operating Systems, Computer Networking (self-taught)