

# **GANESH SHIVKUMAR**

## **Senior Software Engineer | Backend and B2B Supply Chain Systems**

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Software Engineer with 10 years of experience designing, developing, and maintaining highly scalable backend applications for complex B2B supply chain and logistics systems. Expertise in microservice architecture ,cloud-native API development and large-scale data migrations. Proven experience leading projects, mentoring engineers, collaborating with cross-functional teams to ship high-quality products.

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## **SKILLS**

**Languages:** Java, Python, TypeScript, Angular

**Backend & Cloud:** gRPC and Protocol Buffers, REST API, Google Cloud, Kafka, ETL

**Databases:** MySQL, MongoDB, Spanner, BigQuery

**AI:** Vibe Coding using Firebase Studio, Gemini API, MCP

**Leadership & Methodology:** Project Management, Agile, Cross-Functional Collaboration, Mentoring

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## **EDUCATION**

*BITS Pilani* — Work Integrated M.Tech Software Engineering (7.83 CGPA) | June 2022 - December 2024

*PSG College of Technology* — B.E Production Engineering (8.09 CGPA) | June 2011 - June 2015

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## **WORK EXPERIENCE**

### **Google — Application Engineer III**

*December 2021 - Present*

- As Tech Lead, architected and led the full development lifecycle of backend services for a critical 1P vendor onboarding platform, reducing onboarding lead time by 75% for new vendors into Google's B2B supply chain.
- Designed and implemented a highly scalable, Google Cloud-based backend microservice framework to handle B2B transactions, achieving 90% lower latency, 50% higher throughput, and multi-million dollar cost savings.
- Engineered a scalable backend framework using gRPC and Protocol Buffers, implementing a Model Context Protocol (MCP) for seamless agent-to-agent communication, which automated workflows and reduced manual Change List (CL) creation by 95%, significantly improving API access turnaround time and reducing engineering team dependency.
- Partnered with multiple internal cross-functional teams, external partners, and legal, privacy and operations stakeholders to design and implement a highly scalable backend auth framework which is used across the supply chain organisation by 50+ microservices and 10+ applications.

- Engineered and deployed an AI-powered search solution for supply chain operations, significantly reducing query-related bugs by 80%. This was achieved by providing comprehensive, context-aware answers for order IDs and EDI/API payloads, integrating data from four distinct systems.
- Led a cross-functional initiative to design and deploy a modern, scalable backend system replacing a legacy EDI solution, directly addressing complex problems at scale and saving millions in annual operational costs.
- Drove data-driven process improvements in collaboration with business, data and operations teams, resolving post-onboarding issues and developing automated reports to detect issues and abnormalities.
- Led project execution and mentored junior engineers on Agile best practices, increasing team efficiency by 20% and improving on-schedule feature delivery by 30%.

#### ***Dassault Systèmes — R&D Engineer***

*June 2021 - December 2021*

- Resolved 150+ high-priority support tickets within defined SLAs by establishing clear communication channels with stakeholders and utilizing technical expertise, ensuring zero breaches in service commitments during the project lifecycle.
- Improved client satisfaction by code optimization of 10+ performance bottlenecks resulting in 25% better performance metrics.

#### ***GE Healthcare — Enterprise Application Engineer***

*November 2019 - June 2021*

- Collaborated on the Material Compliance Management module of 3DX Enovia PLM and developed a custom frontend application for better reporting capabilities saving 30 hours of manpower per week.
- Owned the migration of 200GB physical data and 1M records of metadata using ETL method from legacy application, ensuring a seamless adoption to a new application.

#### ***ITC Infotech — Implementation Consultant***

*September 2015 - November 2019*

- Implemented customized PLM solutions for retail clients reducing design lead time by ~25%. Expertise in Change Management, configurations, lifecycle management and customizations.
- Engineered backend integrations between critical PLM and ERP systems, building scalable data pipelines that increased operational efficiency by 25%.

## **TEACHING & MENTORSHIP**

#### ***Guest Lecturer — PSG College of Technology***

*August 2025 - Present*

- Authored and delivered multiple 14-hour, one-credit university courses for over 60 computer science students.
- Developed a curriculum focused on modern backend engineering, covering RESTful API design, event-driven architectures (Kafka, RabbitMQ), data standards (EDI, JSON), and secure, scalable cloud solutions with focus on supply chain and software engineering.
- Received exceptional student and faculty feedback with a 95%+ overall satisfaction rating, praised for making sessions highly interactive and using real-world examples to clarify complex technical concepts.