

Shashank Gupta

Senior Staff Engineer | Distributed Systems and Architecture

London • shashanksgupta@gmail.com • +44 7852870243 • [LinkedIn](#) • [Portfolio](#)

SUMMARY

- Senior Staff Engineer with **8+ years** of experience **modernizing legacy monoliths** into **scalable distributed systems**.
- **Technical Leadership:** Architected **Micro-frontend** and **BFF** platforms, establishing **Architecture Decision Records (ADRs)** and **design systems** to reduce technical debt and accelerate delivery.
- **AI Integration:** Production experience building **agentic workflows**, **prompt-engineered tooling**, and **retrieval-augmented features** on **Azure AI Foundry**, **OpenAI**, and **Copilot Studio**, grounded in strong full-stack delivery fundamentals (**Java**, **Golang**, **Node.js**).
- **Core Competencies:** Strong hands-on command of **Kafka**, **RabbitMQ**, **Redis**, and **Solr**, applying **event-driven patterns** and **distributed caching strategies** to deliver highly reliable, **low-latency** enterprise systems.

PROFESSIONAL EXPERIENCE

MOTT MACDONALD

London, UK

Senior Software Engineer

2023-Present

- Architected a scalable **Micro-frontend Platform** using **Module Federation**, **Next.js**, and **Turborepo monorepo** with **pnpm workspaces**, enabling 5+ independently deployable applications with shared **Azure AD authentication** and reducing build time and scaffolding by 50%.
- Designed the **Backend-for-Frontend (BFF)** layer using **Node.js** and **GraphQL**, optimizing data aggregation from multiple downstream services to reduce latency by 40% and simplify client contracts across teams.
- Integrated **Azure AI Foundry** and **OpenAI APIs** into internal tooling, designing **prompt-engineered workflows** that automated repetitive engineering tasks, accelerated developer velocity, and standardized how teams consumed model outputs across the platform.
- Built **agentic workflows** for content summarization and code-review assistance, using typed **tool-calling APIs** and **retrieval-augmented generation (RAG)** patterns to keep outputs grounded in company data and auditable by reviewers.
- Prototyped **Copilot Studio** integrations that expose internal services as natural-language skills for **Microsoft 365** users, bridging enterprise data with conversational surfaces without bespoke frontends.
- Achieved Engineering Excellence by introducing **Architecture Decision Records (ADRs)** and **standardized code governance**, reducing onboarding time by 60% and aligning cross-functional technical strategy across a growing engineering organization.
- Implemented comprehensive **CI/CD pipelines** using **GitHub Actions** and **Turborepo caching**, achieving a 65% reduction in build times through intelligent dependency analysis and parallelized workflows.

INFOGAIN INDIA PVT. LTD.

Mumbai, IN

Software Engineer

2022-2023

- Engineered high-performance **data ingestion pipelines** using **RabbitMQ** messaging queues and **Redis** caching to handle peak load traffic, ensuring **99.9% system reliability** and a 45% improvement in downstream responsiveness.
- Collaborated with a 10+ developer team to design and deploy applications based on the **repository pattern within micro-frontends**, enabling modular, testable, and independently scalable architectures across the product suite.
- Engineered full-stack solutions using **React** and **TypeScript**, seamlessly integrating the **Microsoft Graph API** for secure data retrieval and improved user interactions in complex enterprise workflows.
- Developed **high-concurrency background workers** in **Golang** to process real-time data streams, reducing processing latency by 50% and optimizing resource utilization across service fleets.
- Implemented robust testing workflows with **Jest** and **Mocha**, reducing production defects by **45%** and enhancing overall code reliability through stronger regression coverage.

ATIDAN TECHNOLOGIES PVT. LTD.

Mumbai, IN

Technical Lead

2017-2022

- Spearheaded **front-end development** for content management systems using **React** and **Angular**, building custom modules and enhancing existing features to reduce content loading times by 40% and improve editorial workflows.
- Built robust **data ingestion services** in **Java** that orchestrated **web crawling** and keyword extraction, feeding a high-performance **Solr** search index to power a natural-language query engine for enterprise knowledge retrieval.
- Led a team of 5+ developers through the entire **project lifecycle**, including requirements gathering, level-of-effort estimation, planning, development, and deployment, delivering organizational process improvements and consistent delivery cadence.

- Collaborated with 5+ team members to modernize and optimize websites for **over 30 clients**, ensuring adherence to industry standards, accessibility, and performance best practices.
- Improved performance through efficient handling of large data sets, employing techniques like **viewport rendering** and **lazy loading** to ensure speedy and responsive user experiences.
- Streamlined deployments by managing **CI/CD pipelines** in **Azure DevOps**, boosting development productivity for projects involving 5+ contributors and shortening release cycles.
- Created and maintained component libraries using **Storybook**, enabling fast UI development, consistent design practices, and easy team-wide documentation across client engagements.

SKILLS

- **Backend & API Development:** Node.js, Express, Java (Spring Boot), Golang, RESTful APIs, GraphQL, Prisma ORM, .Net Core, Postgres, SQL Server, Redis, RabbitMQ, Kafka, Azure, AWS, Serverless functions, IBM Solr, Web APIs.
- **Artificial Intelligence (AI) & Emerging Tech:** Azure AI Foundry, OpenAI APIs, Prompt Engineering, Agentic Workflows, Copilot Studio, Retrieval-Augmented Generation (RAG), Model Context Protocol (MCP), Tool-calling patterns, LangChain (ecosystem awareness).
- **System Design & Architecture:** Microservices patterns, Event-driven architecture, BFF (Backend for Frontend), Distributed Caching, High Availability Design.
- **Micro-frontend Architecture:** Turborepo, pnpm, Module Federation, Monorepo strategies.
- **DevOps & CI/CD:** Azure DevOps, GitHub Actions, Jenkins, Docker, Terraform, Bicep, Webpack, Gulp, ARM Templates.
- **Frontend Technologies:** React, Angular, Vue, TypeScript, JavaScript, HTML5, CSS, Next.js (App Router, SSR, SSG), SASS/SCSS, Tailwind CSS, Blazor, Vite.
- **Testing & Quality:** Jest, Mocha, Cypress, ESLint, Prettier.

EDUCATION

BHAVANS COLLEGE, MUMBAI UNIVERSITY
Bachelors in Computer Science

Mumbai, IN
2014-2017