

Utsav Shah

Principal Technology Developer | utsavpshah@gmail.com | linkedin.com/in/UtsavShah01 | github.com/utsavpshah | Birmingham, UK

Professional Summary

Senior engineering leader with over 12 years of experience in solution architecture and hands-on delivery of highly scalable, distributed systems. Proven expertise in Java, AWS, and event-driven architecture (Kafka). Track record of driving technical strategy, optimizing cloud platforms for resilience and cost, and integrating AI tooling to improve developer productivity. Passionate about coaching engineering teams, fostering Agile practices, and building secure, reusable integration layers across complex enterprise environments.

Key Technical Skills

Cloud: AWS (ECS, Lambda, S3, CloudWatch, GuardDuty, Secrets Manager), cloud-native design, cost optimization

Architecture: Solution architecture, application and integration design, microservices, event-driven architecture, NFRs, resilience, availability, observability, security architecture

Engineering: Java, Spring Boot, Kubernetes, Docker, Kafka, Redis, ActiveMQ, MySQL, Python Lambda modernization

DevOps: GitHub Actions, CI/CD pipelines, automated production deployments, signed commits, Gradle caching, release management

Security: GDPR, PII controls, identity and access management, Spring Security, API hardening, S3 access controls, Dependabot, SonarCloud

Leadership: Business cases, design options, stakeholder alignment, financial awareness, mentoring, architecture reviews, agile delivery

Professional Experience

Principal Technology Developer - Aviva

Jul 2026 - Present | Birmingham, UK

- Continuing solution architecture leadership across digital insurance platforms following Aviva's acquisition of Direct Line Group.

Principal Engineer - Direct Line Group

Feb 2024 - Jun 2026 | Birmingham, UK

- Led implementation and architecture activities for Aviva-Direct Line integration initiatives, delivering SSO capabilities, low-level designs, and unified customer access journeys in collaboration with Security, Privacy, and cross-functional stakeholders.
- Provided solution architecture leadership across customer-facing insurance platforms supporting the Direct Line/Motability partnership and 750,000+ users.
- Crafted end-to-end application and integration designs aligned to availability, security, resilience, observability, and performance needs.
- Created and presented technical business cases, design options, and architecture proposals for major post-sales integration systems, informing investment decisions.
- Led investigation and delivery of a critical identity and access data mismatch resolution, restoring accurate access for 3,500+ users.
- Delivered approximately £150k YoY AWS cost savings through environment consolidation, ECS rationalization (40 services down to 10), telemetry cleanup, and release process optimization.
- Led security modernization initiatives including GuardDuty adoption, Secrets Manager integration, API/S3 hardening, and PII remediation.
- Embedded security and compliance controls into CI/CD by rolling out Dependabot, SonarCloud, signed commits, and standardized GitHub Actions adopted by multiple enterprise engineering teams.

- Championed AI-assisted engineering practices across digital teams, improving developer productivity, code quality, and engineering efficiency.
- Coached engineers and less experienced architects through design reviews, cross-skilling, and community sessions on logging standards, cost optimization, AI tooling, and platform engineering practices.
- Consistently awarded the organization's highest performance rating: "Sets a New Standard"; nominated for CIO Awards ("Own It" and "One to Watch").

Lead Software Engineer - GlobalLogic

Jan 2021 - Jan 2024 | Pune, India & Krakow, Poland

- Delivered Single Sign-On across enterprise products using Spring Boot and Kubernetes, strengthening identity architecture and customer access consistency.
- Optimized user migration through batch transaction design, reducing end-to-end processing time by 80%.
- Led release management across teams, including stakeholder sign-offs, deployment planning, rollback plans, and service readiness.

Technical Lead - PTC Inc.

Feb 2017 - Apr 2020 | Pune, India

- Led design and development of VM provisioning and order processing microservices using Spring Boot, Hibernate, and MySQL.
- Created a user activity data warehouse microservice, improving query execution by ~90%.
- Developed a Redis-backed license management service for PTCU LMS, improving login performance by 25%.

Senior Software Engineer - Infosys

Jun 2014 - Feb 2017 | Pune, India

- Led a team of five to design and develop a fleet management and analytics system with live ship tracking using Google Maps, AngularJS, Spring MVC, Apache Kafka, Atmosphere, Java, and PostgreSQL.

Architecture Domains

Cloud Architecture | Enterprise Integrations | Platform Modernization | Security & Compliance | CI/CD Modernization | Distributed Systems

Certifications and Continuous Learning

AWS Certified Cloud Practitioner | Cloud Sustainability Fundamentals | AI & Career Empowerment | Succeeding as a Senior Manager

Education

B.Tech in Instrumentation and Control, Nirma Institute of Technology, Ahmedabad, India | 2014

Publications and Community

- Published *Arduino BLINK Blueprints* with Packt Publishing.
- Led engineering knowledge-sharing initiatives across platform engineering, cloud optimization, and AI tooling.
- Winner of internal innovation and engineering excellence awards across multiple organizations.
- Founded Maker Labs across Infosys Development Centers in India and mentored FabLab instructors for Arduino and Java workshops.