

Amit Kale

Technical Architect

Cloud Platforms | Location Technology | AI

Contact Details

gettoamit@gmail.com

+91 9819643160

amitkale1981

strider1981

Mumbai, India

amitkale.in

Architecture Focus

Product and Platform Design

Cloud Service Boundaries

SDK and API Ecosystems

Resilient Data Pipelines

AI Tools and Orchestration

Legacy Modernisation

Delivery Approach

Hands-on Architecture

Production Reliability

Backward Compatibility

International Collaboration

Professional Profile

Technical architect and engineering leader defining cloud platforms, mobile products and location technology from concept to production. Combines product architecture with hands-on delivery across Intripper, the Zoomin mobile app and Woosmap. Recent work connects conversational AI to live APIs through Amazon Bedrock and MCP, alongside resilient data pipelines and mobile SDK ecosystems.

Areas of Expertise

Platform and solution architecture • AWS cloud design • Mobile product delivery • Indoor navigation and geofencing • API and SDK design • Conversational AI integration • Data pipeline resilience • Technical leadership and modernisation

Technical Skills

Architecture and AI
Microservices, REST APIs, MCP tools and clients, Amazon Bedrock, WebSocket architecture

Mobile and Location
Java, Kotlin, Android, Dart, Flutter, React Native integration, BLE, MapLibre, geofencing, navigation

Backend and Geospatial Data
Python, FastAPI, Django REST Framework, PostgreSQL, PostGIS, pgRouting, Redis, MySQL, MongoDB, MS SQL Server

AWS and Delivery
Lambda, API Gateway, EC2, S3, SQS, SES, CloudFront, CloudWatch, OpenSearch, GitHub Actions, containers, Maven Central, pub.dev

Quality and Earlier Technologies
Automated testing, SonarCloud, Ruff, mypy, dependency security; Node.js, Go, PHP, ASP.NET, C#, VB.NET

Amit Kale

Technical Architect

Capabilities

Architecture Ownership
Product roadmaps, service design and technical assessment

Engineering Leadership
Mentoring, design reviews, Agile and Scrum delivery

Operational Judgement
Reliability, troubleshooting, cost and security decisions

Stakeholder Partnership
Business translation and international collaboration

Languages
English, Hindi and Marathi

Education and Certifications

Bachelor of Computer Applications
IGNOU | 2000 - 2003

Higher Diploma in Software Engineering
APTECH | 1999 - 2001

Microsoft Certified Professional
Visual Basic 6.0 desktop applications

Visual C# .NET Windows applications

Professional Experience

Woosmap and Web Geo Services

Architecture and Platform Delivery | 2022 - Present

Responsibilities

- **Woosmap Indoor:** Helped shape the indoor platform, connecting venue data, search and wayfinding into a cohesive experience. Advanced routing capabilities and strengthened the reliability of services supporting complex, multi-building venues.
- **Indoor Experiences and Interoperability:** Delivered an indoor demonstration app bringing positioning, mapping and spoken navigation together. Developed tooling to generate Apple Indoor Mapping Data Format (IMDF) packages, supporting the representation of indoor venues in the Apple format.
- **Bedrock Chatbot and Chat SDK:** Extended a location-aware conversational assistant with live location and transit services and MCP integration. Proposed a modular chat SDK architecture to bring reusable conversational capabilities into applications.
- **Woosmap MCP Server:** Expanded the server with route, toll and distance-matrix tools, including automatic geocoding of place names. Refined tool descriptions and response structures to make location services more efficient for AI assistants to use.
- **Data Pipeline Architecture:** Designed and owned a multi-business location data pipeline and configuration service. Established dependable processing, validation and recovery capabilities to keep international location datasets accurate, searchable and available.
- **Data Platform Resilience:** Strengthened recovery from interrupted processing and isolated failures across business lines. Supported multilingual and country-specific configuration, combining operational reliability with the flexibility required by diverse markets.
- **Enterprise Geofencing SDK:** Owned delivery of the product and its open-source core, improving background tracking, location quality and beacon capabilities. Extended access through Flutter, React Native and Expo integrations while maintaining compatibility for consuming applications.
- **Platform Delivery and Developer Experience:** Contributed Maps SDK capabilities, modernised release workflows and strengthened quality and security practices. Improved API documentation and change visibility to support reliable adoption across the product ecosystem.

Amit Kale

Technical Architect

Contact Details

gettoamit@gmail.com

+91 9819643160

amitkale1981

strider1981

Mumbai, India

amitkale.in

Architecture Focus

Product and Platform Design

Cloud Service Boundaries

SDK and API Ecosystems

Resilient Data Pipelines

AI Tools and Orchestration

Legacy Modernisation

Delivery Approach

Hands-on Architecture

Production Reliability

Backward Compatibility

International Collaboration

Professional Experience

Intripper

Head of Product and Engineering | Sep 2015 - Dec 2021

Responsibilities

- Led product architecture and delivery of the indoor location platform, bringing cloud services, wayfinding, search and mobile capabilities together into a coherent solution.
- Owned platform scalability, availability and cost effectiveness. Used operational insight and proofs of concept to guide architectural decisions, improve cloud efficiency and validate new capabilities.
- Worked with business stakeholders and international partners to translate requirements into practical solutions, including transport and aviation integrations across Europe, the US and APAC.
- Advanced the Android SDK, automated product delivery and implemented GDPR and security requirements, combining hands-on technical leadership with responsibility for dependable operations.
- **Key Accomplishments / Assorted Contributions:** Intripper was shortlisted among the world's "50 Most Promising Start-ups" by La French Tech in 2017 and showcased as a "Start-up of Interest" at Capgemini.

Sang Infotech

Technical Architecture and Team Leadership | Mar 2004 - Sep 2015

Responsibilities

- Delivered the Zoomin Prints mobile app, combining hands-on product development with technical leadership and coordination across the application team.
- Led projects spanning Cisco Business Class Email, a mobile app for encrypted email; Sparkslink, an order management and inventory platform; and Discount School Supply, an education-focused e-commerce application.
- Translated customer requirements into delivery plans, effort estimates and functional and technical specifications. Guided application design and code reviews to maintain architectural and engineering standards.
- Coordinated geographically distributed engineers, vendors and cross-functional teams through design, development and maintenance, aligning implementation with business priorities.

Additional Appointments

Technical Advisor, SSSPL | May 2018 - Dec 2019

- Advised multiple development teams on AWS service selection and business solution implementation; assisted migration from on-premises infrastructure to the cloud.