

Tushar Geetey

Software Engineer · AI Systems · Developer Infrastructure

🌐 Portfolio 📁 GitHub 🔗 LinkedIn <> LeetCode ✉ geeteytushar@gmail.com

SUMMARY

Software Engineer with **5+ years of experience** building distributed systems, workflow platforms and production infrastructure across Microsoft, Amazon, Oracle and product teams. Strong in system design, reliability, security, event-driven architecture and high-scale backends. Since February 2026, building AI-native products for developer workflows, context continuity and automation.

EXPERIENCE

Independent Product Development

Feb 2026 – Present · India

- **Context Runtime** — Built a local-first, owner-reviewed context runtime for continuity across Claude Code and Codex, with versioned state, conflict protection, restart recovery and MCP integrations (Python, FastMCP, Pydantic, SQLite FTS5).
- **Kelson** — Built a multiplayer engineering workspace for teams and AI agents: shared project state, human checkpoints before risky changes, GitHub change workflows and persistent project memory (Next.js, Supabase Realtime, Octokit, MCP).
- **ApplyPilot / PIKY** — Built workflow tools across browser automation and native macOS: ApplyPilot ranks opportunities and assists ATS workflows while final submission stays human-controlled (Python, Playwright, Chrome MV3); PIKY captures text, screenshots and files from the active Mac workflow for reuse with AI tools (Swift, AppKit, ScreenCaptureKit).
- **where2?** — Built and operated a live, no-login city-discovery product across four Indian cities, handling **~40K server requests** and iterating on discovery, curation and save/share flows (Next.js, TypeScript, Supabase).

Microsoft · Software Engineer II

Jun 2024 – Jan 2026 · India

- Led security modernization for Microsoft Family Safety production services: Managed Identity adoption and Event Grid authentication hardening, retiring secret-based auth without downtime (C#.NET, Azure).
- Led data-layer migrations: **Cosmos DB SDK v2→v3**, and Azure.Data.Tables across services running on **86+ production machines**, improving SDK supportability and operational reliability.
- Architected notification infrastructure integrating Store Catalog and Ratings services, contributing to a **30% increase in Ask-To-Buy engagement** across experiences serving millions of families.
- Migrated **30K+ LOC** from Fluent UI v8→v9, improving accessibility across 15+ customer workflows; created migration guidance adopted by 20+ engineers.

DataFlow Group · Software Engineer II

Jan 2024 – Jun 2024 · India

- Architected an asynchronous **state-machine workflow engine** for multi-stage document verification, with persisted state, retries and idempotency, cutting manual intervention by **40%** (TypeScript/Node.js, SQS/SNS, DynamoDB/S3).
- Built OCR/LLM-powered document-processing pipelines, reducing processing time by **50%** (Puppeteer, Tesseract, LangChain, OpenAI, AWS).
- Automated high-volume verification workflows processing thousands of documents daily, improving validation accuracy by **40%** while supporting zero-downtime operational handoff.

Booking.com · Software Engineer II

Mar 2023 – Aug 2023 · India

- Built backend payment and invoice-management services integrating **Bank of America and Adyen**, improving reconciliation efficiency and partner-payment visibility (Java, Spring Boot).
- Developed real-time outstanding-invoice notification workflows for hotel partners, reducing payment-resolution delays by **25%**.

Amazon · Software Development Engineer

Apr 2022 – Mar 2023 · India

- Designed secure tax-verification and document-upload workflows for Seller Central merchant onboarding in the India marketplace, supporting **50K+ monthly verification transactions** (Java, Spring Boot, SQS/SNS, IAM/OIDC).
- Built GST abuse prevention with **DynamoDB-backed concurrency control** and repeated-request protection, cutting malicious verification attempts by **80%** at 99.9% uptime; presented in a quarterly cross-team review.
- Optimized high-traffic database access through indexing and query improvements, reducing average latency by **35%** across endpoints serving 200K+ daily requests.

Oracle · Software Developer

Sep 2020 – Apr 2022 · India

- Architected the **Central Feed Processing Service**, a reusable multi-format file-processing and validation platform for **1M+ daily transactions**; parallelization cut end-of-day lag by 30% (Java, Spring Boot, Kafka).
- Owned the **Oracle Banking Extensibility Toolkit (OBX)** revamp so teams extend services and UI without forking the base product, supporting customization for 20+ financial clients; led a two-day OBX architecture and adoption workshop.
- Implemented Flyway-based database migration workflows with automated rollback, enabling zero-downtime changes across **15+ production databases** (MySQL).

TECHNICAL SKILLS

Languages — Java · Python · C++ · C# · TypeScript · JavaScript · SQL · Swift

Backend & Systems — Spring Boot · Spring MVC · .NET · Node.js · REST APIs · Microservices · Distributed Systems · System Design · Event-Driven Architecture · Kafka · SQS/SNS · Concurrency Control · Workflow/State-Machine Systems

Cloud & Data — AWS · Azure · DynamoDB · Cosmos DB · Azure Tables · S3 · PostgreSQL · MySQL · SQL Server · Kusto/KQL

Platform & Operations — Docker · Kubernetes · Service Fabric · Bazel · GitHub Actions · Jenkins · Azure Pipelines · Flyway · Geneva

AI & Automation — OpenAI · LangChain · MCP · OCR/Tesseract · Puppeteer · Playwright · Browser Automation · Human-in-the-Loop Workflows

EDUCATION

Indian Institute of Technology Guwahati — M.Tech · Computer Science and Engineering

2018 – 2020

LNCT Bhopal — B.E. · Computer Science and Engineering

2013 – 2017

AWARDS

Microsoft Star Award · Microsoft AI/Innovation Hackathon **Runner-Up** · GATE **AIR 252** · ISRO Scientist/Engineer CS Written Test **AIR 40**