

agampreet_singh@yahoo.com

+91 9041716953

linkedin.com/in/agampreet Singh

github.com/agampreet Singh

agampreet Singh.me

EXPERIENCE

JUL 2022 — PRESENT

DP World / Group SDE 2 — Tech Lead

- Owner of the Quotations platform — a cross-functional pillar of DP World's global freight-forwarding business across 150+ locations .
- Architecting **Scout**, an **AI-powered** product co-pilot for DP World logistics products — combining **LLM-powered** query resolution, contextual guided workflow tours, and pull-request based release summaries to replace manual onboarding walkthroughs and make product discovery self-serve.
 - Designed Scout's **Gen AI application layer** — prompt templates, structured tool calling, retrieval pipeline, response guardrails, and traceable request flows — to keep LLM-powered features reliable, debuggable, and provider-agnostic.
 - Built the **Quotations module from scratch** as part of DP World's **P100 programme** — live since Oct 2023; adoption scaled from ~20 to ~500 quotes/week (25×) . Stack: Spring Boot · PostgreSQL · Hibernate · Redis · Azure EventHub · New Relic.
 - Re-architected Quotes to be **config-driven** — zero-code support for new tenants, countries, and branches; decoupled CRM workflows to cut inter-service coupling — reducing tenant onboarding time from 3 Weeks to 3 hours
 - Reduced Quote creation latency 15s → 2s through targeted performance optimisation across the request path.
 - Built a **high-performance PDF generator** from HTML templates — outperforms paid tools like Aspose; adopted across multiple DP World products.
 - Tech-lead for the Quotations platform — set architecture direction, review bar, and delivery cadence for a team of **5+ engineers**; partnered with Product, Pricing, and Operations to land platform decisions across DPW divisions.
 - Improved engineering quality, observability, and security posture — maintained **SonarQube coverage ≥ 80%** with **Maintainability rating A**, led **New Relic** migration for centralised observability, resolved VAPT findings, and standardised Java application templates including the **Notification Handler** now integrated by 8 internal apps.
 - Recognised with the **Champions Award** (FY 2024–25) for delivery impact across the platform.

DEC 2020 — JUL 2022

Deutsche Telekom / Software Development Engineer

- Designed and developed an **authorization service** using Keycloak and Java, centralising access-control flows, admin dashboards, and security controls across internal applications.
- Built a dynamic **media file resizing** service using AWS Lambda + Python (Boto, MoviePy, PIL), enabling optimised image/video processing.
- Developed backend for a **rule-based chatbot** using tree architecture in Java Spring Boot.
- Designed backend APIs for a **template-based dynamic screen creator** for mobile apps, enabling configurable screen rendering without repeated app-side changes.
- Architected a reusable internal file-upload service; improved artifact management via **Nexus** jar-repository; improved Keycloak availability by externalising Infinispan cache.

FEB 2020 — DEC 2020

BlackRock / Analyst — Software Engineer

- Improved serialisation performance **10× faster** (15s → 1.5s) on the firm's Analytics platform.
- Contributed across the Analytics stack — Scala, Spark, Java, Spring Boot, Cassandra, MySQL — and gained hands-on experience resolving production incidents at scale.

JUN 2018 — JAN 2020

Nagarro / Associate Engineer

- Delivered solutions for a US-based ITM compliance system: implemented new user types and scaled email throughput 200 → 1000 / day via GCP.
- Reverse engineered a legacy application and revamped the system from scratch, shipping the replacement into production.
- For a German airline client: upgraded codebase to **Swagger 2**, designed inter-service communication, and built new lounge-voucher types.

TECHNICAL SKILLS

BACKEND & CORE	Java · Spring Boot · Microservices · REST APIs · Hibernate · Maven
DATA & CACHING	PostgreSQL · MySQL · Redis · Apache Kafka · Cassandra
CLOUD & DEVOPS	Azure EventHub · AWS Lambda · GCP · Keycloak · New Relic · Grafana · SonarQube · Nexus
FRONTEND & LANGS	Node.js · Express · Angular · Vue.js · Python · Scala · Spark
GEN AI & AGENTS	LLM Workflows · Prompt Engineering · RAG · Tool Calling · Agentic Workflows · Guardrails
STRENGTHS	System Design · Performance Optimization · Team Leadership · Mentoring · Code Quality

EDUCATION

B.Tech, Computer Science & Engineering
Guru Nanak Dev University · 2014 — 2018

ENGINEERING FOCUS

Backend Platforms · Distributed Systems · Gen AI Applications · Agentic Workflows · Performance Optimization · Observability