Mudit Raj Gupta

Ph : +91 90046 63315   Email: mudit.raaj.gupta@gmail.com

SDE 3 *Amazon* | PSE *Swiggy* | Lead *Directi* | EM *Housing* | Co-founder *Spyn* | *Google Summer of Code* | *BITS - Pilani*

Experience

Amazon

Software Development Engineer - III   (July - 2020 - Present)

1. Defined the tech vision, architected, and driven alignment for a cross-org platform to model WW Amazon catalogue, selection enrichment strategies across teams in the selection monitoring (SM) org in India and the US. Providing technical leadership to SDEs leading the design and implementation of sub-platforms. Owned end to end delivery of business critical and/or cross-cutting concerns across the platform from design to code and operations.

2. Proposing, defending and executing plans for unification of various fragmented platforms like observability and data orchestration spread across teams, influencing various stakeholders and leading unification efforts across-teams.

3. Worked with managers, product owners and principal engineers to help bootstrap a new horizontal team by refining the team's charter, owning the tech vision & architecture. Helped in instilling leadership's confidence in the team by consistently taking high-judgement trade-off decisions between business critical projects and long-term tech vision. Involved in mentoring the team, setting up engineering processes and frameworks for engineering and operations excellence.

Swiggy

[Swiggy](#) is a [vc-backed](#) [unicorn](#) working in [hyperlocal-deliveries](#) doing around 2 million deliveries / day.

Principal Software Engineer   (Apr - 2019 - July 2020)

1. Carved the Swiggy Maps team charter from various existing teams and came up with the high-level architecture to build the platform and aligned stakeholders on the same. Designed and coded critical parts of various platforms for trip monitoring, geofencing, address intelligence & POI.

2. Designed order exception management systems with multiple services and changes cutting across six teams improving CX in the entire order fulfillment flow.

3. Influenced & aligned product and engineering leadership on various high impact, company level decisions like centralized vs distributed exception management & building a centralized platform for addresses. Published and drove recommendations on inter-service communication, workflow patterns across the company. Consulted on projects with various teams on various projects.

Software Development Engineer - IV   (May 2017 - Mar 2019)

1. Architected, designed, coded and led a team to develop a self-serve, scalable, multi-tenant workflows platform. The platform was developed with open source components and internal services, integrated with Swiggy infrastructure and added tooling. Drove adoption across teams, handling over 100,000 workflow invocations per minute across domains.

2. Re-architectured fulfillment monolith into multiple microservices, clearly separating various domains. Scaled the platform from 50 thousand daily orders to 1.8 million daily orders by fixing performance bottlenecks and optimizing existing services.

3. Drove inception and implementation of best practices of production setup and application usage for various infrastructure components including but not limited to RabbitMQ and Postgres. Maintained uptime, alerting and monitoring of these components. Considerably increased the uptime from 99.9 to 99.99 over quarters.

Directi - Zeta

[Directi](#) comprises a group of tech businesses with [multiple exits](#).

Lead Engineer (June 2016 - May 2017)

1. Re-architected the cloud card platform responsible for card customization, issuance, submission and transaction honoring under strict timelines, owing to demonetization in India.
2. Implemented notes/coupons in ledger to enable transaction-level rules to meet compliance requirements.

Housing

Housing is a Softbank and Nasper backed real-estate portal

Engineering Manager (Apr 2015 - May 2016)

1. Led a team of 30 engineers including 3 team leads, senior and junior engineers with a focus on converting Housing to discovery-led portal from a search-led portal.
2. Focussed on user-profiling, re-engagement & recommendation, maps and search services.

Team Lead (Apr 2014 - Mar 2015) / Software developer (Sept 2013 - Mar 2014)

1. Led a team of 5 developers working on maps and geo-infrastructure.
2. Designed and coded a tile server to render available flats over maps using a transparent overlay in real time along with interaction information for a rich experience.
3. Generated concave polygons from a dense point cloud data for various localities, design and coded geocoding and area polygon microservice.

Spyn

Spyn was an angel funded on-demand laundry start-up serving London.

Co-founder / CTO (Aug - 2014 - May 2016)

1. Responsible for entire technology stack for the companyDesigned, architected and coded the consumer app
2. Designed, architected and coded the operations control panel for slot management and referrals
3. Worked with a team of freelancers to ship the android and iOS version.

Google Inc. - Google Summer of Code (GSoC)

Contract Developer (May - July 2011, 2012, 2013)

Selected thrice as a contract developer. Made major open source contributions like :
1. **mlpack** - *Added a collaborative filtering package to mlpack*
2. **ns-3** - *Added distributed simulation in ns-3*
3. **repastS** - *Added multi-agent models in repastS*

Education

BITS - Pilani, Goa Campus

B.E. (H) Electronics and Instrumentation and M.Sc (H) Chemistry *(2008 - 2013)*

Skills

AWS, CDK, JAVA, SpringBoot, Vert.x, Python, Go, Redis, RabbitMQ, Kafka, Cassandra, PostgreSQL, DynamoDB, ElasticSearch, Design, Architecture