

Mridul Gupta

SOFTWARE ENGINEER · COMPUTER SCIENCE AND ENGINEERING MAJOR

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“Focused backend engineer with expertise in micro-services architecture, distributed systems and system design. Can work well with teams and have experience owning end-to-end deliverables individually. Currently working as a Software Engineer for People Experience at Amazon, building next-generation workforce management products”

Everyday Tasks Include

PRODUCT & BUSINESS

- Product requirement understanding and end-to-end solution design, development, and delivery.
- Support on production issues, following SLA guidelines.

TECHNICAL

- Low level system design and implementation.
- Developing REST APIs, worker modules, managing/developing queuing and logging systems.
- Automation tasks like deployment scripts, database migration scripts, monitoring and alerting systems, etc.

MANAGEMENT

- Mentor junior engineers.
- Code reviews and TDD.
- Conduct interview rounds for potential hires.

Work Experience

Amazon

Toronto, Canada

SOFTWARE ENGINEER

Jan. 2023 - present

We build and support time systems that pay employees accurately, and simplify workforce management. Our goal is to support every addressable Amazon employee in every country Amazon does business

Zeta Suite, Directi

Bengaluru, India

SOFTWARE ENGINEER II - CIPHER

Jul. 2021 - Dec. 2022

- Actively building and maintaining entire Zeta's security infrastructure, from Payment Security to Identity and Access Management
- Piloted initiatives to ensure end-to-end GDPR Compliance.
- Led an org-wide architectural change for an important security feature which prevents broken logout experiences.
- Implemented various features and platform enhancements for Cipher, notably a pub-sub “Logout All” feature and Time-based OTP Mechanism
- Tech used: **Java/Spring, Kafka, PostgreSQL, AWS, Kubernetes**

Airtel X Labs

Gurugram, India

SOFTWARE ENGINEER - DIGITAL STORE AND AIRTEL IQ

Mar. 2020 - Jul. 2021

- Worked to build an intelligent micro-services layer to orchestrate bundle orders with rules around eligibility, payments, discounts and billing.
- Built a reconnaissance engine to manage subscription validity basis eligibility, directly **saving 10% reselling cost** every month in the process.
- Deployed a centralized monitoring environment (**Grafana, InfluxDB**) which gather system metrics as well as API run-time metrics.
- Implemented several API micro-services in **Java** to manage client workflows for Airtel IQ, which presently clocks **over 100 million** daily requests.

The MathWorks Inc.

Bengaluru, India

SOFTWARE ENGINEER INTERN

May 2018 - Jul. 2018

- Implemented multiple iterations of a prototype using **Perl** to enable developers to automate their cross-platform prequalification tests for future **MATLAB** SDK versions toolboxes.
- Attended daily meetings to understand P1 issues and shadow full-time engineers in the process.
- Was recognized for identifying the highest number of exploits among other interns in a bug bash before MATLAB R2018b release.

Technical Skills

Programming Java, MATLAB, Python, Perl

Technologies Core Java, Spring Boot, Kubernetes, Web Services (RESTful and SOAP), Avro, Kafka, RabbitMQ, Jenkins, Elasticsearch, Git, Bash

Frameworks Spring Boot, Django, Flask

Education

IIIT (Indraprastha Institute of Information Technology)

New Delhi, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

- Teaching assistant for **Linear Algebra** and **Introduction to Programming**

Research & Projects

Cloning Machine Intelligence

New Delhi, India

B.TECH THESIS UNDER THE GUIDANCE OF DR. DEBARKA SENGUPTA

- Dedicated to the exploration of intelligence hacking in machine learning models.
- Building data-less models based on classification boundary estimation
- Manuscript submitted to IEEE Access for publication. [Thesis Poster](#)

Trimming the Fat

New Delhi, India

RESEARCH COURSE PROJECT WITH DR. RAJIV RATN SHAH

- Deep Learning Based in Videos. [Report Slides](#)
- Platform to analyze a video file or feed and allow the user to search for objects in it.
- Extended to recognize object color and specific people in the video
- Application built in **Flask** uses the YOLO model trained with the MS-COCO dataset to detect various objects in the image.

Everybody Dance Now

New Delhi, India

RESEARCH COURSE PROJECT WITH DR. SAKET ANAND

- Implemented “do as I do” Motion Transfer using Generative Adversarial Networks (GANs)
- Work involved video-to-video translation using pose as an intermediate representation.

Information Fusion of Location-based Services

New Delhi, India

INDEPENDENT RESEARCH PROJECT WITH DR. PONNURANGAM KUMARAGURU AND DR. ANKITA LIKHYANI, IBM RESEARCH

Orchestrated a long-term crawl on location-based online social networks (Foursquare, Uber, Yelp, Twitter) to generate user knowledge graphs.

Honors & Awards

2021	Best Team Award, Q4 2020-21 , Digital Enterprise Division, Airtel X Labs	Gurugram, India
2020	Best Rookie Award, Q2 2020-21 , Digital Enterprise Division, Airtel X Labs	Gurugram, India
2020	Best Team Award, Q1 2020-21 , Digital Enterprise Division, Airtel X Labs	Gurugram, India
2019	Best Rookie Award, Q2 2019-20 , Digital Enterprise Division, Airtel X Labs	Gurugram, India
2017	1st place, Technical Quiz , Research Showcase, IIIT Delhi	New Delhi, India
2017	7th place, Capture-the-Flag Contest , Facebook DevC	New Delhi, India
2014	Ignited Mind and Overall Proficiency Award , Delhi Private School	Dubai, UAE
2013	1st Place , S P Jain Brain Triathlon UAE	Dubai, UAE

Volunteer Experience

Be My Eyes

Virtual

VOLUNTEER

June. 2021 - present

- Devoting part of my time to solve real world problems for blind and sight impaired people around the world.

Indian Social Responsibility Network

New Delhi, India

SUMMER TRAINEE VOLUNTEER

May. 2019 - Jun. 2019

- Encourage NGOs to participate and facilitate a smooth onboarding on BSE Sammaan, a homegrown initiative to matchmake companies to NGOs for their Corporate Social Responsibility (CSR) initiatives.
- Develop media content on themes based on CSR field reports.

Indraprastha Institute of Information Technology

New Delhi, India

SECRETARY, STUDENT SENATE

Apr. 2017 - May. 2018

Served as Secretary of The Student Senate, an elected body which serves as a representative for undergraduate and postgraduate students. at IIIT-Delhi with the following objectives.

- Participated and served as a representative of the students in Academic Policy Making.
- Conducted meetings with the present students regarding grievances and discussion on current academic affairs.
- Organized growth programs involving students and alumni, including student counseling, higher education, etc.

COORDINATOR, THE 65TH SQUARE

Sept. 2015 - Apr. 2019

The 65th Square is the Chess Club of IIIT-Delhi.

- Organized the college's annual Chess Tournament three years in a row.
- Participation - 500+ school/college students and 50+ FIDE Rated players.
- Organized 50+ chess tutorials and practice matches for 75+ students.