Mridul **Gupta**

SOFTWARE ENGINEER · COMPUTER SCIENCE AND ENGINEERING MAJOR

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"Focused backend engineer with expertise in micro-services architecture. Can work well with teams and have experience owning end-to-end deliverables individually. Currently working as a Software Engineer for the Platform vertical at Zeta Suite, a core-to-edge unicorn startup looking to move banking away from the stone ages."

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

Zeta Suite, Directi
Bengaluru, India

SOFTWARE ENGINEER II - CIPHER
Jul. 2021 - present

- Working on platform enhancements and security fixes to enhance customer access to applications and services.
- Design and developing an end-to-end solution to create a multi-tenant SAML 2.0 compliant Identity Provider
- Tech used: **Spring Boot**, Java, **PostgreSQL**
- Currently also learning containerized deployment processes involving **AWS** and **Kubernetes**.

Airtel X Labs
Gurugram, India

SOFTWARE ENGINEER - DIGITAL STORE
Mar. 2020 - Jul. 2021

- Worked to build an intelligent micro-services layer to orchestrate bundle orders with rules around eligibility, payments, discounts and billing.
- Designed and developed overall service architecture and pipelines to manage a subscription lifecycle of a product.
- 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.

SOFTWARE ENGINEER - AIRTEL IQ
Jun. 2019 - Feb. 2020

- **Cloud-based** omni-channel platform designed to embed real-time communication to any business application.
- Implemented several API micro-services in **Java** to manage client workflows.
- Presently clocks **40 million+** daily requests.
- Deployed a centralized logging environment (**ELK**, **Filebeat**) which gather log data from micro-services.

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, LaTeX
Technologies	Core Java, Spring Boot, Log4j2, Web Services (RESTful and SOAP), Avro, Kafka, RabbitMQ, Jenkins, ElasticSearch, Git, Bash
Frameworks	Spring Boot, Django, Spark, Flask

Education

IIIT (Indraprastha Institute of Information Technology)
New Delhi, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING
Aug. 2015 - Jun. 2019

- 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
Jun. 2017 - Dec. 2017
- 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
Aug. 2018 - Dec. 2018
- 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
Aug. 2018 - Dec. 2018
- 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
May. 2017 - Dec. 2017
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*
2021	**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.