MRIDUL MITTAL

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Education

New York University	**Sep 2023 – May 2025**
Master of Science (MS) in Computer Science	*New York, NY*
Thapar Institute Of Engineering and Technology	**Jul 2016 – Jul 2020**
Bachelor of Engineering(B.E.) in Computer Science	*Patiala, India*

Professional Experience

Tide — **Jan 2023 – Aug 2023**
Software Development Engineer II — *Bengaluru, India*

- Spearheaded end-to-end development of Card Issuance and Management system in Agile team, driving 30% product usage growth enhancing user experience of 500,000 customers in UK, India, Germany.
- Engineered and implemented specialized microservices escalating transaction processing speed by 60%, cutting down service latency by 25%, and propelling company's market entry into India and Germany.
- Managed ongoing product refinement efforts, identifying and resolving critical bugs resulting in 25% decrease in user-reported issues, optimizing card management lifecycle processes.

Navi Technologies — **Oct 2021 – Jan 2023**
Software Development Engineer II — *Bengaluru, India*

- Developed a robust and scalable payments system capable of handling over 5 million daily requests, leading to a 1000% business growth within one year.
- Collaborated with cross-functional teams optimizing payment process, reducing transaction times by 40% and improving customer satisfaction ratings by 30%.
- Engaged vigilantly in crucial system support, rendering unrelenting, 24/7 on-call assistance for resolving challenging troubleshooting issues and addressing customer concerns, ensuring peak system performance and robust reliability.

Tide — **Jul 2020 – Oct 2021**
Software Development Engineer I — *Hyderabad, India*

- Integrated Faster Payment Service (FPS) into existing system, resulting in 60% reduction in payment times across multiple banks in UK.
- Contributed to team effort in migration of legacy monolithic codebase to microservices architecture, resulting in a 75% increase in system scalability and a reduction of system failures by 80%.
- Demonstrated rapid skill development and exceptional performance within agile Payments Team, earning swift promotion to Software Development Engineer-2 in less than a year, signifying fast-paced career progression.

Projects

Stable Matching Allocation | *Java* — **Nov 2019**

- Refined Gale-Shapley algorithm, yielding stable and efficient student-college matches in polynomial time for College Admission Seat Allocation problem.

Sentiment Analyzer | *Python, NLTK* — **May 2019**

- Developed a Natural Language Processing tool for sentiment analysis of 2019 Indian elections, achieving 91% accuracy by utilizing word embeddings and POS tagging for colloquial and syntactic challenges.

Technical Skills

Languages/Databases: Java, Python, PostgreSQL, MySQL
Technologies/Frameworks: Spring Boot, REST, Junit, Mockito, CI/CD, Maven, Gradle, Redis, Postman, Apache Kafka, SNS, SQS, Docker, Kubernetes, Git, AWS, MVC, Jira

Relevant Coursework

Data Structures & Algorithms, Operating Systems, Computer Networks, Database Management System, Computer Programming, Software Engineering, Cloud Computing, Artificial Intelligence, Information Security & Privacy .

Publications

- **Mittal, M.** (2023). "Analysis of Matched Filter Spectrum Sensing in Multicarrier Waveform". *Advances in Communication, Devices and Networking. ICCDN 2022. LNEE, vol 1037.* **Springer, Singapore.** *https://doi.org/10.1007/9918_55*

- **M. Mittal** *et al.* "Security Enhancement using Vectoring, Cryptography and Steganography," *2023 International Conference on Intelligent Systems, Advanced Computing and Communication, pp. 1-8,* **IEEE.** *https://doi.org/10.1109/ISACC100108*

Leadership / Extracurricular

- Instructed over 100 underprivileged children in core mathematics concepts as part of a community outreach initiative with AIESEC in the city.
- Represented India at 6th PinkCity International Rating Chess Tournament organized by World Chess Federation .