

Akash Mathpal

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Education

Thapar Institute of Engineering and Technology
Bachelor of Technology in Computer Science and Engineering

July 2022
Patiala, Punjab

Experience

Mitsubishi UFJ Financial Group (MUFG) Securities America

Oct 2023 – Present

Software Development Engineer

Bangalore, Karnataka

- **Managed the operational excellence of the entire Handover custom component** built for aligning 95% bonds and records helping in proper record alignment while shifting trading desks.
- **Segregated** high-value bonds and records to prioritize trades during trading desk transition, enhanced trading efficiency by 25% and boosted high-yield bond trades by 15%
- **Brought down the manual effort of operating Handover component by 80%** by making application auto-configurable.
- **Reduced latency by 40%** for the transaction API calls by sending one transaction request per record.
- **Created and reviewed** software design documentation for Handover component saving 10 hours per week in manual training for new team members.

ION Group

Jan 2022 – Oct 2023

Software Engineer, Cloud and Automation Team

Noida, Uttar Pradesh

- **Steered** the path of developing and maintaining INSTALLER, a middleware automation ION software used by 75% of global investment banks for automated platform management.
- **Orchestrated the development** of a CI/CD pipeline for deploying INSTALLER jars, reducing deployment time by 60% and enhancing code integration efficiency by 40%
- **Increased the release efficiency** of INSTALLER by 37% by using distributed machines for testing automation test suites and **shortened the deployment time by 40%** ensuring consistent and reliable releases.
- **Accelerated automated testing** for INSTALLER by spawning distributed EC2 machines reducing CPU utilization by 45%.
- **Provided** technical direction to the team by helping them chase down regression issues by 20%.

Projects

Veto-Clinic |

- Designed and programmed a Pet-Clinic Finder application using **Spring Boot** and **Maven**. The app provides users with nearby located pet-clinics with the required details and helps them book an appointment.

Amazon Clone |

- Developed and maintained an E-commerce website, including product catalog, checkout process, and **payment gateway integration**. Accomplished a real-time mail feature on placing successful orders or cancellation of orders

Achievements

- Secured Global Rank of 25 out of 3500 candidates in [Codechef](#) Starters 134C held in May, 2024.
- Solved 200+ [Leetcode](#) questions.
- Secured Global Rank of 185 out of 30000 participants in [Codechef](#) Long Challenge held in June, 2020.
- Second Runner-Up out of 45 teams at HackOWASP hackathon held in March, 2022.
- Secured National Rank of 89 in National Science Olympiad held in October, 2015.
- Secured First Position at Inter-School Abacus competition held in 2014.

Technical Skills

Languages: Java, C++, Data Structures, Algorithms, Python, SQL (MySQL, H2)

Frameworks: Spring, Spring Boot, Spring Data, Spring Security, J-Unit, Robot Library, Linux

Developer Tools: Git, Docker, Jenkins, AWS(EC2), Eclipse, IntelliJ

Skills: Data Structures and Algorithms, Software Development, Automation, Algorithm Design, Computer Networks, Computer Architecture, Digital Systems Design, Mentorship, Innovation.