Akash Mathpal

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EDUCATION

Thapar Institute of Engineering and Technology　　　　　　　　　　Patiala, Punjab, India
B.E.　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*2018-2022*

EXPERIENCES

MUFG Securities America — Java Backend Consultant　　　　　October, 2023-Present
Bangalore, India

- Fin-tech - Electronic trading
- Multi-threaded Java development using Spring Boot and Rx Java 3.x
- Designed robust solutions while working in a fast paced agile environment.
- Optimised development of custom components that integrate with the e-trading system using Spring Validations and Spring Boot
- Spot and fix vulnerabilities in the developed components via Veracode
- Developing applications in PUB-SUB model using Redux Java and Google event bus

ION Trading — Software Developer　　　　　　　　　January, 2022-October, 2023
Noida, India

- Fin-tech - Market view - Development
- Worked on INSTALLER , a middle ware software used by leading global investment banks for automating their platform setup , upgrade and promotion workflows .
- Optimized legacy code to achieve improved reliability, scalability and maintainability .
- Designed robust solutions while working in a fast paced agile environment .
- Implemented automated testing and achieved code coverage of 84% , reducing the number of production issues by 75%
- Managed and deployed and built Docker Images into private ION Docker repositories

PROJECTS

Expense Tracking System | *Java, Spring Boot, Spring Framework, Spring Data, Spring Security*　　link

- A Spring based web app with MySQL database which is user accessible and keeps track of expenses and budget entered by the user and warns them if the expense crosses the mentioned budget.
- The webApp also provides user with graphical user insights for better understanding of the expenses and budget in hand.
- The logic is implemented in a way where the user gets notified via mail when the expense crosses budget constraints using SMTP

Hostel Allocation and Complaint Management System | *Python, Flask, GCP, HTML, JQuery*　　link

- Developed a Python based Web Portal with MySQL database for automating and managing various operations and processes of the hostel administration
- The portal comprises of sub-applications like Online Hostel Booking System, Complaint Management System, Campus Permissions.
- Deployed the application on a live server which is currently being used by 8000+ campus students and has reduced administration paperwork by 95% .

TECHNICAL SKILLS

Language: Java, C++, Data Structures, Algorithms, Python, SQL (MySQL, H2)
Frameworks: Spring Framework, Spring Boot, Spring Data, Spring Security, Junit, RobotFramework, Linux
Developer Tools: Git, Docker, Jenkins, AWS(EC2), Eclipse, IntelliJ
Libraries: numpy,pandas,MatPlotLib