

Lavina Chotrani

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EDUCATION

- **Birla Institute of Technology and Science (BITS) - Pilani** Pilani, India
Master of Science - Mathematics; GPA: 7.43 August 2016 - June 2021
Courses: Data Structures, Analysis Of Algorithms, Cryptography, Fuzzy Logic & Applications, Graphs and Networks, Discrete Mathematics
- **Birla Institute of Technology and Science (BITS) - Pilani** Pilani, India
Bachelor of Engineering - Electronics & Instrumentation; GPA: 7.43 August 2016 - June 2021
Courses: Operating Systems, Object Oriented Programming, Data Communications & Networks, Digital Design, Microprocessors, Microelectronics, Analog & Digital VLSI Design

SKILLS SUMMARY

- **Languages:** Java, C++, SQL, Python, MATLAB, HTML/CSS
- **Frameworks:** Spring, Express, Django, NodeJS, Bootstrap, React
- **Technologies:** Kubernetes, Docker, GIT, MySQL, Apache, MongoDB, Docker, Postman, Mockito, Redis, REST API
- **Platforms:** SQL Developer, JUnit, AWS, Microsoft Azure, Kafka, HeidiSQL

EXPERIENCE

- **Jio Platforms Ltd.** Navi Mumbai, India
Software Development Engineer (Full-time) July 2021 - Present
 - **NextGenOperation:** Briefly part of the Next generation operation project as part of the AI driven operations team and successfully released software for announcements based on Java, J2EE, Spring MVC using Spring Boot Framework.
 - **Pulse (Jio Governance):** Involved with the Governance Module that aims at tracking action points, meetings and MOMs for employees of the company.
Built various microservices and APIs to effectively track, schedule and maintain records for the meetings across the organization.
 - **Hybrid Cloud Management Platform:** Actively involved with the Asset Management Team and successfully carried out the shifting of data from SQL Servers to Elastic Database to assist in the Management and Information retrieval of Assets.
Currently involved in building a Configuration Management Database for the Admin Users across the organization.
Implemented the workflow design to install, start and stop an agent on multiple assets through scheduling tasks on the task processing layer.

PROJECTS

- **Fourth Order Predictor Corrector:** (Undergraduate Thesis) Implemented and verified the fourth order Predictor-Corrector Method for solving two of the widely used partial differential equations in Fluid Dynamics :
 - 2-Dimensional Stagnation Point Flow (Newtonian Fluid Flow Model)
 - Unsteady Micropolar fluid flow across a stretching/shrinking sheet with thermal radiation (Non-Newtonian/Micropolar Fluid Flow Model) (June '20)
- **QMoney, QEats:** Built a demoable distributed, high availability Java backend stock analyzer tool for portfolio managers to help them manage their clients' trades and a mock food ordering application. (July '21)
- **XMeme:** Designing and deployed a simple backend web application where users can post and see memes. Further secured the built API services with OAuth2 authentication in Spring. (July '21)
- **T2FPID Controller for SCARA Type Redundant Robot:**
 - Detailed study about the working of IT2FPID controller which uses IT2FSs for the SCARA type redundant robot with 5 DOFs.
 - Use of MATLAB and Simulink for simulating the GA based optimally tuned IT2FPID. (July '20)
- **hFe Tester Desing – Microproccesor & Interfacing:**
 - Designed a tester to display the hFE value of an NPN transistor on an LCD display by interfacing in Proteus using Assembly Language Programming. (May'19)

HONORS AND AWARDS

- Recipient of the INSPIRE Scholarship awarded by DST, Govt. of India - May, 2016
- Regional Mathematics Olympiad (RMO) Qualified - September, 2014

POSITIONS OF RESPONSIBILITY

- **Department of Publications & Correspondence, Core Member** Pilani, India
 - Involved in getting Participation from over 100 colleges for all Kernel events in OASIS which amounted to over 1500 participants in total.
 - Actively helped increase the overall participation in OASIS by an approximate 10% than the participation seen last year.
 - Organized Snap Sessions for all the clubs and departments which work for the fest and contributed almost 10% of the budget from the same.