

Meghna J.

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Education

Master of Science in Computer Science, 3.78 GPA Aug 2022 – May 2024 (Expected)

University of Texas at Arlington – Arlington, TX

- Relevant Coursework: Cloud Computing and Big Data, Web Data Management, Machine Learning, Data Mining

Bachelor of Technology in Computer Engineering, 66.24% (First Class) Aug 2014 – May 2018

Mukesh Patel School of Technology Management & Engineering, NMIMS University – Mumbai, India

Experience

Software Developer, Student Assistant, University of Texas at Arlington - Arlington, TX May 2023 – Aug 2023

- Developed the FabLab platform's v2 web portal using React and Node.js transitioning from the v1 PHP version.
- Integrated Single Sign-On Authentication and Authorization, transitioning from a simple login to linking with students' Outlook accounts, enhancing security and login experience.
- Collaborated with engineers to troubleshoot and resolve application code issues for the v1 version, ensuring stability and robustness.

Software Engineer, Application Development, IBM India Pvt Ltd - Gurgaon, India Jul 2018 – Jul 2022

- Managed end-to-end feature development, including debugging and root cause analysis for backend software systems.
- Developed, tested and maintained 25+ data transformation apps for the IBM Enterprise Service Bus in the financial industry.
- Played a pivotal role in migrating legacy applications to contemporary design and technology, enhancing performance.
- Actively engaged with production engineers to identify and fix code issues, reducing the number of production incidents related to customer record creation and modification workflows.
- Mentored 4 new joiners: 1 recent graduate, 2 experienced developers, and 1 tester, fostering team cohesion and enhancing productivity.
- Executed a POC leveraging Geolocation to authenticate users at Bank/ATM and dispatch relevant SMS alerts. Technologies Used: OpenStreetMap, Node.js, IBM Cloud.
- Constructed an Onboarding Application to track the progress of role-based activities and tasks for new hires in the Integration Build Team before transitioning to Atlassian JIRA issue tracking software. Technologies Used: Java, JS, Spring, MongoDB.

Skills

Programming Languages: Java, Python, Groovy Scripting

Software Development: ReST and SOAP-based API Development, Data Structures, Algorithm Design, Web Development

Database Management: ESQL, SQL, MongoDB (NoSQL)

Testing: Unit Testing, System Testing, ReadyAPI/SoapUI, Postman, JUnit

Version Control: Git, Rational Team Concert (RTC)

Tools: IBM Message Queue, IBM Integration Bus, IBM App Connect, IBM Cloud

Projects

Beaver (Learning Management System) github.com/meghna-cse/beaver

- Designed and implemented a system with user-focused UI/UX, integrating role management & sentiment analysis for improved educational engagement.
- Technologies Used: React, Node.js, TypeScript, Laravel, MySQL, Postman

SOUL (Simulation of Objects in Unity for Learning) github.com/meghna-cse/SOUL

- Engineered a web application to create an interactive learning experience using simulations.
- Technologies Used: Unity3D, JavaScript, HTML, CSS.