

Mohi Mishra

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science Computer Science Expected May 2024

Jaypee Institute of Information Technology, Noida, India
Bachelor of Technology Electronics and Communication Engineering Jul 2017 - Feb 2021

PROFESSIONAL EXPERIENCE

Code.org | DFG, Remote

Engineering Manager (part-time)

Oct 2023 - Present

- Spearheaded a **cross-functional team of 8 engineers** to elevate website accessibility, concentrating on features tailored for users with disabilities, utilizing **React** and **Typescript**.
- Implemented **Agile methodologies** to optimize team efficiency, resulting in increased feature release frequency and efficient product development cycles.

Social PayMe | Florida, USA

Frontend Developer (Internship)

May 2023 - Aug 2023

- Refactored existing **React Native** codebase to enhance stability and performance, contributing to a **20% improvement**.
- Converted Figma designs into functional components, **reducing code duplication by 12%**.
- Refined user experience & functionality of web applications by employing effective troubleshooting & debugging techniques, resulting in a **30% reduction in reported bugs**.

Cognizant Technology Solutions | Hyderabad, India

Software Analyst (Full-time)

Feb 2021 - Jul 2022

- Maintained algorithms using **C#** within epostRx to validate and verify prescription data, ensuring accuracy and compliance with healthcare regulations.
- Designed & automated Sanity Test workflow to monitor QA environments within epostRx **reducing manual tasks by 16%**.
- Wrote **100% test coverage** for System Integrated testing, **decreasing bugs by approx 10%**.

PROJECT EXPERIENCE

Sensor Data - Web Application (JavaScript, TypeScript, NodeJS, MongoDB, React)

Sep 2023 - Dec 2023

- Designed & developed a web application, utilizing **TypeScript, JavaScript, MongoDB, Node.js, Express.js, React.js** to search sensor data enhancing metadata accessibility.
- Utilized **RESTful APIs** and **Express** frameworks for efficient data retrieval and manipulation.
- Front end was developed using React templates while backend was structured with TypeScript using Node Js.

Netflix Data Analysis (MongoDb, Python, NoSQL)

Apr 2023 - Apr 2023

- Extracted and cleaned data using **MongoDB**, **contributing to a 6% improvement** in model accuracy.
- Implemented advanced algorithms such as **Cosine function in KNN and time series analysis** for predicting popular movies and TV shows accurately.

Instruction Pipeline Simulator (C)

Aug 2022 - Dec 2022

- Engineered a **C based application** to support both in-order & out-of-order execution of assembly code instructions, resulting in an **18% increase in processor performance**.
- Integrated advanced features like Register Renaming, Branch Prediction, and Tag-based data forwarding to optimize processor efficiency.

Courses Allocator (Java)

Oct 2022 - Oct 2022

- Devised a course allocation program, optimizing course capacity & duration conflicts, resulting in a **reduction in conflicts**.
- Implemented a first-come, first-served (FCFS) approach, **reducing processing time and improving program efficiency**.

TECHNICAL SKILLS/ CERTIFICATIONS

Programming Languages: Java, Python, C#, C

Web Technology: HTML, CSS, JavaScript, Typescript, JSON, React/Redux, Node.js, Express.js, RESTful APIs

Databases: MySQL, MongoDB

Cloud Systems: GCP, AWS

Technical Skills: GitHub, Soap APIs, Full Stack Web Development, Microservices, HTTPS, Containerization, Software Development, Software Engineering.