**MUKHESH CHANDRA MEKALA**

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**EDUCATION**

**Northeastern University, Boston, MA Expected May 2025**

Master of Science in Information Systems **GPA: 3.8/4**

*Relevant Courses:* Application Engineering & Development, Web Design & UX Engineering, Program Structures & Algorithms, Object-oriented Design, Data Science

**National Institute of Technology, Silchar, India May 2022**

Bachelor of Technology in Electrical Engineering

*Relevant Courses:* Data Structures & Algorithms, Machine Learning, Introduction to Blockchain

**SKILLS**

**Programming Languages:** Java, Python, SQL, Go, C++, C

**Web Technologies:** HTML, CSS, Bootstrap, JavaScript, ReactJS, Vue.js, NodeJS, ExpressJS, REST APIs, Angular, TypeScript

**Cloud Technologies:** AWS, Docker, Kubernetes

**Database:** MySQL, Oracle, MongoDB, PostgreSQL

**Data Science & ML**: Machine Learning, Data Analysis, Data Visualization (Tableau, PowerBI), Data Pipelines, Jupyter

**Testing Frameworks:** Jest, Enzyme, JUnit, Mockito, TDD, Unit Testing

**Prototyping & Design Tools:** Figma, Balsamiq, Moqups

**Operating Systems:** Linux, Unix, MacOS, Windows

**Software:** Git, GitHub, Maven, Visual Studio, Postman, IntelliJ, Jira, Agile, Bitbucket, Swagger API

**WORK EXPERIENCE**

***Software Engineer*** - **EDUREKA, New Delhi, India November 2022 - May 2023**

* Architected a cross-device compatible user interface using **ReactJS**, managing state with **Redux** and ensuring code quality with **Jest** and **Enzyme**, which **increased user satisfaction by 20%**.
* **Implemented real-time collaboration features** by integrating **Socket.io** into a **MERN stack** application with secure authentication, resulting in **a 38% increase in user collaboration**
* **Optimized RESTful APIs using NodeJS and ExpressJS**, and integrated **MongoDB**, improving data retrieval efficiency by **25%** and enhancing system scalability and resilience

***Software Engineer*** - **ZOPSMART, Bangalore, India June 2022 - November 2022**

* **Crafted a web application in Go with RESTful APIs**, utilizing **Test-Driven Development (TDD)** and unit testing frameworks, which **improved code reliability and cutting production bugs by 30%**
* **Enhanced API development and database management** by leveraging **MySQL**, using **SQLmock** and **Gomock** for effective testing, and creating user-friendly API documentation with **Postman** and **Swagger**
* **Collaborated with cross-functional teams at Kroger** to implement performance optimization strategies in **Go**, achieving a **30% faster website load speed**

**PROJECTS**

**FITVIBE** (ReactJS, SASS, NodeJS, ExpressJS, MongoDB) **Boston, MA**

***Northeastern University* September 2023 *-* December 2023**

* Designed **a responsive, cross-device compatible application** using **ReactJS** and **SASS** to help students monitor daily activities like nutrition, fitness, rest, and study habits, enhancing user engagement
* **Engineered a high-performance backend using NodeJS and ExpressJS**, streamlining request processing to **boost system reliability by 25%** and improve user experience

**MEDICAL FACILITY MANAGEMENT** (Java, Java Swing, MySQL)  **Boston, MA**

***Northeastern University*  September 2023 - November 2023**

* **Developed a Medical Facility Management application using Java Swing**, integrating **MySQL** for health records and patient data management, which **enhanced operational efficiency**
* **Implemented key system functionalities** including patient registration, appointment scheduling, billing, and insurance management, resulting in a **30%** **improved service delivery**

**QUARANTINE MANAGEMENT SYSTEM** (Python, Oracle SQL, HTML, CSS)  **Assam, India**

***National Institute of Technology,* *Silchar* October 2021 - January 2022**

* Devised **an optimized quarantine management database** using **Oracle SQL**, with E-R diagrams and normalization, incorporating automated procedures and triggers to **ensure data integrity**
* Orchestrated the development of a **scalable web interface using HTML and CSS and a Python back-end**; the project led to a **30% decrease in training time** for new employees accessing the system