

# MONALIKA CHANDRAKANT PRADHAN

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## EDUCATION

**Northeastern University, Boston, MA**  
Master of Science in Information Systems

Expected May 2024

**SIES, Graduate School of Technology, Mumbai, India**  
Bachelor of Engineering in Electronics and Telecommunications Engineering

Aug 2016-Oct 2020

## TECHNICAL SKILLS

**Languages:** C, SQL, NoSQL, Python, COBOL, HTML5, CSS, JavaScript, Ajax, Java, Typescript, jQuery  
**Frameworks:** React.js, Bootstrap, Node.js, Angular.js  
**Wireframing Tools:** Figma, Axure RP 10, Mockups, Balsamiq  
**IDEs & Servers:** NetBeans, Visual Studio Code, Postman, IntelliJ, MS SQL Server  
**Operating Systems:** Windows, Microsoft Office 365, Linux  
**Other Tools:** GitHub, Jira, WinSCP, Bitbucket, Power Bi, Azure Data Studio

## WORK EXPERIENCE

**TATA Consultancy Services Ltd, Mumbai (India)**

Oct 2020- Aug 2022

**Designation:** Assistant Systems Engineer

- Optimized the process of manual deletion (35%) by developing a TACL Macro for automation process in Tandem Systems.
- Developed various COBOL programs for generating Customer Statements for all accounting entries like MT940 (End-of-day account statements) and MT942 (Interim account Statements). This includes generating electronics as well as paper statements.
- Prepared Guardian and OSS Dispatching units to deliver the developed code to SIT and UAT Systems and preparing delivery documents like Requirement Specifications, Functional Specifications, Impact Analysis, Unit Testing, Code Review Checklist
- Adopted agile principles for sprint planning and daily standup call for understanding the business requirements.
- Performed the root cause analysis and solving L3-Production issues which requires extensive debugging skills for troubleshooting and doing impact analysis of the changes/enhancement.

## ACADEMIC PROJECTS

**NutriFit: Web Page for Gym, Nutrition and Gym Accessories**

Sep 2022-Dec 2022

**Front End: ReactJS, Backend: MongoDB, Styling: SCSS**

- Conceptualized and developed a responsive website using HTML, JavaScript, SCSS on React.js framework which included multiple pages such as User Registration, Log-In, Log-Out, Diet Plans, Online store, Gym Membership Plans, etc.
- Implemented REST APIs in Postman to manage user data, including integration with the MongoDB database, ensuring efficient and secure data storage and retrieval.
- Integrated Email.js to enable customers to send and receive emails and utilized E-commerce.js to facilitate a smooth cart and checkout process.

**KitchenKourier: A Food Delivery Mobile Application**

Jan 2023-Apr 2023

**Wireframing Tool: Figma**

**Research Method: Card Sorting, Requirements and Constraint gathering, Usability Testing**

- Designed a prototype of food delivery application from scratch, utilizing user-centered design principles and a design thinking approach to deliver a polished and intuitive food delivery app design that met user needs and business goals.
- Conducted comprehensive user research which included conducting a user survey, creating user personas, and analyzing existing food delivery applications and user feedback to identify pain points and user needs for a food delivery application.
- Developed an intuitive onboarding experience for new users, utilizing various UI components and plugins such as Material Design Icons and Icons8 to enhance the visual design of the application. Implemented a range of interactive features, including Smart Animate, After Delay Dissolve, and Key/Gamepad to create a seamless navigation between different pages of the food delivery application.

**Organ Donation Management System**

Jan 2023-Apr 2023

**Server: MS SQL Server, Tool: Azure Data Studio**

- Designed and implemented a comprehensive database schema for organ donation, considering data normalization principles to reduce data redundancy and improve data consistency. Created Stored Procedures and Triggers for inserting data into transplant table only when the Request status in Request table is approved.
- Visualized the data using Power Bi to track and analyze donor consent rates by region, age group, and donor type which helps in for analyzing the effectiveness of consent outreach efforts and identifying opportunities to increase donor consent rates.
- Integrated Java Swing to design and develop a graphical user interface (GUI) for an Organ donation Management System. The GUI enabled users to perform basic CRUD operations and efficiently store data in the MS SQL Server, enhancing the functionality and accessibility of the system.