

RUCHITA MAKWANA

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EDUCATION

State University of New York at Binghamton, NY
Master of Science in Computer Science

Aug 2021 – May 2023

K.J. Somaiya Institute of Engineering and Information Technology, Mumbai, India
Bachelor of Engineering in Information Technology

Aug 2014 – Jul 2018

TECHNICAL SKILLS AND ABILITIES

Programming Languages:	JavaScript/TypeScript, Java, Python, HTML5, CSS3, SASS
Databases:	NoSQL(MongoDB), SQL(MySQL)
Frameworks:	React.js, Node.js, Express.js, AngularJS, Mongoose, Bootstrap, Java Spring Boot
Technology and Tools:	REST, Redux, Git, Postman, Docker, Linux, Jenkins, SonarQube, Figma, Webpack

PROFESSIONAL WORK EXPERIENCE

Global Health Impact Project | Application Developer

Jan 2022 – May 2022

- Developed a **Java Spring Boot** program that reduced manual data entry and manipulation by **30%**, mapping specific data from **MySQL** databases to Excel files using the **Apache POI library**.
- Created a data consistency algorithm using **Python** for verifying drugs and diseases information existed in **MySQL**.
- Streamlined programming language and dependency installation for developers and non-technical users by creating a **PowerShell** script that downloads and installs necessary components for **Windows OS**, saving time and effort.

Accenture Solutions Pvt. Ltd | Application Developer

Aug 2018 – Jul 2021

- Developed and maintained over **60** dynamic and editable templates and functionalities for the SelfServe dashboard using **HTML5**, **CSS3**, **Bootstrap**, **JavaScript**, and **jQuery**, ensuring compatibility across multiple screen resolutions and various browsers.
- Implemented **User Interface** for a Testing Automation Tool using **Angular8**, validating various scenarios and functionalities such as routing, input, and form validation.
- Followed **SDLC principles** and **Agile methodology** along with ensuring compliance with design system and code style guides as a code owner.
- Provided exceptional 24/7 support, working diligently to ensure seamless operations and prompt issue resolution.

ACADEMIC PROJECTS

Food Review Website (<https://github.com/ruchitahm/Food-Review-Website>)

Jan 2023 – Mar 2023

- Created and maintained a responsive **MERN(MongoDB, Express.js, React, and Node.js)** application allowing users to perform **CRUD** operations by adding comments, rating, as well as store their favourite dishes.
- Implemented user engagement features using **Redux**, such as the ability for the users to manage their saved dishes, and an admin panel allowing for control over comments, feedback, and user details.
- Built **RESTful APIs** using Node.js, Express.js, and MongoDB as a back-end for seamless communication between the client and server.

OCR for handwritten digits using KNN (<https://github.com/ruchitahm/OCR-using-KNN>)

May 2022 – Jul 2022

- Developed a web application for Optical Character Recognition using the **K-Nearest Neighbours algorithm**, utilizing **Test-Driven Development methodology** for the provided test inputs, achieving **93%** accuracy using **JavaScript**, **HTML5**, and **CSS3**.
- Improved the user interaction of the application using **React**, **Redux**, and **TypeScript**.

Analysis on Obesity (<https://github.com/ruchitahm/Analysis-on-Obesity>)

Aug 2021 – Dec 2021

- Conducted 4 data analysis tasks investigating the impact of obesity on the physical and mental health of individuals.
- Utilized **MongoDB** pipeline to integrate data and performed real-time interpretation of results using **Node.js**.

Application Tracking System (<https://github.com/ruchitahm/Application-Tracking-System>)

Aug 2017 – Jun 2018

- Developed a web application for online recruitment using **Natural Language Processing (NLP)** techniques to assist recruiters in identifying suitable candidates.
- Utilized **Python**, **HTML5**, and **CSS3** to create a user-friendly interface and **PhpMyAdmin** database for the application, ensuring a smooth user experience.

CERTIFICATIONS:

- Front-End JavaScript Frameworks: **Angular** from Coursera
- Front-End Web UI Frameworks and Tools: **Bootstrap 4** from Coursera
- Front-End Web Development with **React** from Coursera
- Server-side Development with **NodeJS**, **Express** and **MongoDB** from Coursera