

RUCHITA HARESH MAKWANA

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

State University of New York at Binghamton, NY

August 2021 – May 2023

Master of Science in Computer Science

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

August 2014 – July 2018

Bachelor of Engineering in Information Technology

TECHNICAL SKILLS AND ABILITIES

Programming Languages: JavaScript, TypeScript, Java, Python, HTML5, CSS3, SASS

Databases: MongoDB, NoSQL, MySQL

Frameworks: React.js, Node.js, Express.js, AngularJS, Bootstrap, Java Spring Boot

Software and Tools: Redux, GitHub, VS Code, Postman

PROFESSIONAL PROJECT EXPERIENCE

Global Health Impact Project, Application Developer | Binghamton, NY

January 2022 – May 2022

- Reduced manual data entry and manipulation by up to **30%** through the development of a **Java Spring Boot** automation script that maps specific data from source to destination **MySQL** databases and Excel files using **Apache POI** library
- Simplified the programming language and dependency installation process for developers and non-technical users by creating a **PowerShell** script that downloads and installs the necessary components for **Windows OS**, saving valuable time and effort.
- Developed and maintained an accurate and reliable database for various drugs and diseases using **MySQL**, ensuring data consistency by cross-checking the information displayed on the website with the database contents.

Accenture Solutions Pvt. Ltd, Application Developer Analyst | Mumbai, India

August 2018 – July 2021

- Developed and maintained **60+** dynamic and editable templates and functionalities for the SelfServe dashboard, fixing several template bugs and ensuring compatibility with various screen resolutions and browsers.
- Implemented the **User Interface** using **Angular8** for a Testing Automation Tool, requiring validation of various scenarios and functionalities such as routing, input, and form validations.
- Performed testing and managed various app-related activities, including approving app ratings, and ensuring compliance with AppCatalog and DataCatalog portals.
- Provided 24/5 support, working various shifts to ensure smooth operations and timely issue resolution.

ACADEMIC PROJECTS

Food Review Website | Binghamton, NY

January 2023 – March 2023

- Created and maintained a responsive **MERN(MongoDB, Express, React, and Node.js)** application allowing users to perform **CRUD** operations by reviewing and rating dishes, as well as store their favorites.
- Implemented user engagement features using **Redux**, such as the ability for 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.

Optical Character Recognition for handwritten digits using KNN | Binghamton, NY

July 2022

- Developed a web application for Optical Character Recognition using the **KNN algorithm**, utilizing **TDD methodology** for the provided test inputs, achieving **98%** accuracy with JavaScript, HTML5, and CSS3.
- Improved the user interaction of the application using **React**, **Redux**, and **TypeScript**.

Analysis on Obesity | Binghamton, NY

August 2021 – December 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**.

Resume Refinement System Using Semantic Analysis | Mumbai, India

August 2017 – June 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.
- Preprocessed resume data using NLP techniques such as tokenization, stopword removal, stemming, and lemmatization to extract useful information and remove noise.
- Employed semantic analysis techniques to identify the most relevant resumes based on the job description, thereby reducing the time and effort required for manual screening.