

RUCHITA HARESH MAKWANA

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Computer Science

Aug 2021 – May 2023

K.J. Somaiya Institute of Engineering and Information Technology

Bachelor of Engineering in Information Technology

Mumbai, India

Aug 2014 – Jul 2018

TECHNICAL SKILLS

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

Software and OS: Google Cloud Platform (GCP), Visual Studio Code, Docker, Linux, Postman, Figma, Webpack, Microsoft Office Suite, Git, Redux, Agile, JIRA, SDLC

Front-end Technologies: React.js, Angular, Bootstrap, jQuery, AJAX

Back-end Technologies: Node.js, Express.js, Java Spring Boot, Flask, RESTful APIs

Certifications:

- *Full Stack Web Development with Angular Specialization from Coursera*
- *Full Stack Web Development with React Specialization from Coursera*
- *Google UX Design Specialization from Coursera*

PROFESSIONAL EXPERIENCE

SUNY Binghamton University, Research Assistant | [San Francisco, California]

Aug 2023 – Present

- Initiated the development of an online attendance and reporting system on **Google Cloud Platform** (GCP) for enhanced efficiency
- Engineered the backend API with **Python Flask** and utilized **MongoDB** for streamlined data storage and retrieval
- Designed an intuitive front-end using **React.js** to optimize user experience and facilitate seamless interaction
- Implemented automation features to enhance accuracy in attendance tracking, reducing manual efforts and improving overall system reliability

Global Health Impact Project, Full Stack Developer | [Binghamton, New York]

Jan 2022 – May 2022

- Architected a **Java Spring Boot** application with a React.js frontend, automating **Excel-to-MySQL** data transfers and reducing manual entry efforts by **30%**
- Developed a **Python**-based system, integrating React.js for the frontend, to ensure the accuracy of critical drug and disease information stored in a **MySQL** database
- Created a user-friendly **PowerShell** script to simplify software setup on **Windows OS** for both developers and non-technical users
- Spearheaded initiatives using **Bootstrap** for the frontend and **Node.js** for the backend, optimizing resource utilization and ensuring data integrity, leading to a significant enhancement in operational efficiency

Accenture, Application Developer Analyst | [Mumbai, India]

Aug 2018 – Jul 2021

- Led the design and upkeep of **60+ editable** and **responsive** templates using **HTML5**, **CSS3**, **Bootstrap**, **JavaScript**, and **jQuery** for the various dashboard, ensuring seamless cross-browser compatibility and an enhanced user experience
- Designed the **User Interface** for a cutting-edge Testing Automation Tool using **Angular8**, emphasizing modularity and scalability for optimal functionality
- Applied **SDLC** methodologies and **Agile** principles, leveraging Angular's robust framework for high-quality code and project success in line with industry standards
- Offered ongoing support, swiftly resolving any Angular-related issues to ensure uninterrupted system operations and reliability

PROJECT EXPERIENCE

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

Jan 2023 – May 2023

- Created and maintained a user-friendly website for food reviews, allowing users to easily rate and comment on dishes
- Utilized modern web technologies like **MongoDB**, **Express.js**, **React**, and **Node.js** to build a responsive and interactive platform
- Demonstrated proficiency in technologies like **Redux** for state management and **RESTful API** development

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 Neighbors** algorithm
- Applied **Test-Driven Development** (TDD) methodology for accurate digit recognition, achieving an impressive **93%** accuracy rate using **JavaScript**, **HTML5**, and **CSS3**
- Enhanced user interaction using technologies like **React**, **Redux**, and **TypeScript**

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

Aug 2021 – Dec 2021

- Conducted data analysis projects exploring the impact of obesity on individuals' physical and mental health
- Utilized **MongoDB** pipeline and **Node.js** for seamless data integration and real-time result interpretation
- Demonstrated strong data analysis skills and proficiency in database management