# 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**                          **Mumbai, India**
*Bachelor of Engineering in Information Technology*                                            *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
**Databases:** PostgreSQL, MySQL, MongoDB, Firebase
**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