# SAHIL MAHENDRA MODY

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## EDUCATION

**Stevens Institute of Technology, Hoboken, New Jersey**                    Expected: May 2023
**Master of Science in Computer Science**                                              **(GPA: 3.83/4)**
**Honours**: Master's Scholarship Award

**Thadomal Shahani Engineering College, Mumbai, India**                              June 2021
**Bachelor of Engineering in Information Technology**                              **(CGPA: 8.55/10)**

## TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, SQL, R, Java
- **Web Technologies:** Node.js, Express.js, Django, ReactJS, Flask, HTML, CSS, Postman, Rest APIs, JSON
- **Cloud and Databases:** MySQL, PostgreSQL, GraphQL, MongoDB, Firebase, AWS (EMR, EC2, S3, Lambda)
- **Software & Tools:** Git, MS Excel, Tableau, Power BI, Docker, Visual Studio, Arduino IDE

## PROFESSIONAL EXPERIENCE

**VTeamLabs, Redmond, WA – Software Development Intern**          September 2022 – December 2022
- Customized websites on the Django framework for the OpenEDX Platform, enhancing features and functionality of the Learning Management System (LMS)
- Collaborated with business analysts to understand customer needs and develop innovative solutions to enhance customer engagement and satisfaction
- Assisted in the design and implementation of software features, utilizing Agile methodologies and Git
- Participated in code reviews and testing to ensure the quality and reliability of the software delivered to clients

**Trivia Software, Mumbai, India - Software Development Intern**          December 2019 – February 2020
- Collaborated with a team of **3** and designed an interactive Student Management System applying Tkinter, and worked on cx_Oracle for Oracle Database to administer database operations on student details
- Scrapped data from multiple sources adopting APIs and Python libraries such as requests and Beautifulsoup4
- Improved system performance by **8%** by working with the testing team to improve the debugging process

## ACADEMIC PROJECTS

**ShareSmiles –** *Node.js, Express.js, React.js, Firebase*                              December 2022
- Developed a social media web app using Node.js, Express.js, and React.js, allowing users to create accounts, post photos, and interact with the photos of their friends
- Gathered user data, stored it in NoSQL format using Firebase Realtime Database, and authenticated users with Google sign-in through Firebase Authentication
- Imposed Middleware and Authentication using express-session, and cookie-parser to secure website

**Courshaala –** *Node.js, MongoDB, Express.js, AJAX, Handlebars, JavaScript, HTML, CSS*                    May 2022
- Spearheaded a team of **5** members to design a high-fidelity prototype using a user-centered design process to improve the technological capabilities of students enrolling in online courses offered by motivated instructors
- Applied Handlebars.js for templating, Express.js and Node.js for the backend, and MongoDB to store the data
- Revamped performance by **9%** by performing manual testing to analyze possible bugs and fixed identified issues

**Boston House Prediction –** *Python, Machine Learning, Flask, Postman, Docker, GIT*                    February 2023
- Developed a Linear Regression Model to predict housing prices in the Boston area based on **13** criteria using Python's Scikit-learn library and visualized the predictions and residuals to assess model performance
- Validated model performance using Mean Absolute Error (MAE), Root Mean Square Error (RMSE) and R2 score and optimized model parameters to achieve a mean absolute error of less than **0.4**
- Designed and implemented a Flask web application to provide an interactive user interface to allow users to submit requests for real-time housing price predictions
- Utilized Docker to build and deploy the model and used version control (GIT) to track changes to the codebase

## PUBLICATIONS AND CERTIFICATIONS

- Authored and published a paper on Sentimental Analysis on USA Election Slogans in International Journal of Engineering Research and Applications in (Series-IV) in September 2020, Volume 10, Issue 9, ISSN: 2248-962
- **Certificates:** Introduction to Data Science using Python by University of Michigan**,** Python with Data Science