

Rohan Nagavardhan

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EDUCATION

- University of Michigan** Ann Arbor, MI
 - Bachelor of Science in Engineering - Computer Science; GPA: 3.83* *May 2020 - April 2024*
 - Courses: Computer Architecture (IP), Technical Communication for CS (IP), Differential Equations (IP), Data Structures and Algorithms, Discrete Mathematics, Applied Linear Algebra, Multivariable Calculus*

SKILLS

- Languages:** Python, C/C++, JavaScript, Dart, MATLAB, L^AT_EX
- Frameworks:** FastAPI, Flutter, React.js, Flask
- Tools:** Firebase, Git, PostgreSQL, SQLite
- Platforms:** Linux, Windows, Raspberry Pi, AWS, GCP

EXPERIENCE

- Wander** Remote
 - Full Stack Software Engineer (Part-time)* *Feb 2021 - Present*
 - Reduced page render times by **75%** by implementing an infinite scroll mechanism with **Flask**, **Python**, and **React.js**
 - Reimplemented existing UI pages using **Figma** mock ups and **front-end web technologies** (i.e **React.js**, **CSS**) to improve user experience
- Stony Brook University** Stony Brook, NY
 - High School Research Assistant (Full-time)* *Nov 2019 - Mar 2020*
 - Authored a research paper and presented my findings at the Long Island Science & Engineering Fair (LISEF) and Astrobites
 - Increased training dataset by up to **10x** by developing a realistic radial velocity data simulator
 - Created a **novel machine learning model** to predict the number of planets potentially orbiting a star with an **accuracy of 81%** using XGBoost and other open-source scientific libraries

PROJECTS

- Hindu Temple and Cultural Center of Long Island** *Apr 2021 - Aug. 2021*
 - Mobile application for iOS and Android*
 - Improved community engagement by building a mobile application for iOS and Android for **500+ devotees** in the Suffolk County, Long Island area using **FastAPI**, **PostgreSQL**, and **Flutter**
 - Implemented a robust **RESTful service** using **FastAPI** and **Python**, **PostgreSQL** as the database, and used **AWS EC2** for hosting the solution
 - Conceptualized the mobile application **UI/UX** with **Figma** and implemented the mobile application with **Flutter** and **Dart**
- Diego the Dog** *Mar 2020*
 - HackCEWIT 2020 – \$1,500 Undergraduate Best-in-Show Award Winner*
 - Conceptualized a **mobile application geared towards limiting technological distractions and allowing students to detach themselves while studying**
 - Built the mobile app UI using **Flutter** and **Dart**, created animated assets using **Rive.app**, and integrated the front-end to **Firebase** for user-authentication and data storage
- Polaris** *Sep 2019*
 - SBUHacks 2019 – Med-Bay Hack Award Winner*
 - Developed a voice-powered navigation device for the visually impaired using a **Raspberry Pi**, **Google Cloud Platform APIs** and other hardware (i.e microphone)
 - Used the **Python client libraries** for **Google Speech-to-Text API** and **Google Maps API** to parse user-provided locations and return walking directions to the user, respectively

LEADERSHIP EXPERIENCE

- WM STEM Enrichment Instructor** East Setauket, NY
 - Created and guided various astronomy related hands-on activities for over 5+ students* *Aug 2021*