Rohan Nagavardhan

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Education

- **University of Michigan** — Ann Arbor, MI
  Bachelor of Science in Engineering - Computer Science; GPA: 3.8 — *May 2020 - Present*

  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, LaTeX
- **Frameworks**: FastAPI, Flutter, React.js, Flask
- **Tools**: Firebase, Git, PostgreSQL, SQLite
- **Platforms**: Linux, Windows, Raspberry Pi, AWS, GCP

Projects

- **Hindu Temple and Cultural Center of Long Island**
  Mobile application for iOS and Android — *Apr 2021 - Aug. 2021*
  - 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**
  HackCEWIT 2020 – $1,500 Undergraduate Best-in-Show Award Winner — *Mar 2020*
  - 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**
  SBUHacks 2019 – Med-Bay Hack Award Winner — *Sep 2019*
  - 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

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

Leadership Experience

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