

# Rohan Nagavardhan

Portfolio: rohansogal.com

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## EDUCATION

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

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- **Languages:** Python, C/C++, JavaScript, Dart, MATLAB, L<sup>A</sup>T<sub>E</sub>X
- **Frameworks:** FastAPI, Flutter, React.js, Flask
- **Tools:** Firebase, Git, PostgreSQL, SQLite
- **Platforms:** Linux, Windows, Raspberry Pi, AWS, GCP

## EXPERIENCE

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- **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

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- **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

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