# Rohan Narayanan

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## EDUCATION

**The University of Texas at Austin** B.S. Electrical and Computer Engineering, Minor in Business May 2022
GPA: 3.52

## EXPERIENCE

**Fidelity Investments** – Software Engineering Intern; Westlake, Texas Summer 2021

- Developed dashboard with Datadog for team's AWS applications to proactively monitor application health and remediate issues before they arise
- Refactored data validation application in the production environment using Java to enable automatic notifications at the completion of nightly, monthly, and on-demand batch cycles

**Fidelity Investments** – Software Engineering Intern; Westlake, Texas Summer 2020

- Spearheaded project to develop new system for documentation and analysis for team's software development lifecycle in Confluence
- Analyzed patterns in mutual fund data leveraging Python and MS Excel to reduce the report creation time by 30% for mutual fund managers
- Redesigned internal team documentation website using JavaScript and CSS for improved user experience and greater efficiency

**Working Solutions LLC.** – Data Analysis Intern; Dallas, Texas Summer 2019

- Classified and analyzed remote independent contractors' hardware and software data using MS Excel to discover data patterns for technology compatibility (processor, RAM, bandwidth etc.)
- Presented data pattern analysis and action plan to CEO which led to 15% reduction in contractor problem service tickets

## TECHNICAL SKILLS

- Java, C, Python, C++, Linux, MS Office, Datadog, SQL, MATLAB, Machine Learning, Assembly Language, Verilog, Confluence, JavaScript, CSS

## ORGANIZATIONS AND PROJECTS

**Texas Spacecraft Laboratory** – Flight Software Team Fall 2020 – Present

*Student-driven space research group for designing, building, and launching satellites into space, often collaborating with NASA, the Air Force Research Laboratory, and local aerospace companies*

- Responsible for software development, including software architecture, satellite computer selection, and performance system testing for SERPENT mission to improve space situational awareness and autonomous inspection of uncooperative targets
- Facilitated research and testing for CAN Bus implementation with custom printed circuit board for on-board real-time data transfer between components

**Senior Design** – Proprioceptive Glasses for Visually Impaired Summer 2021 – Spring 2022

*Project for senior capstone to enhance the quality of life for the visually impaired by helping with the ability to navigate and adapt to the user's surroundings*

- Designing and building glasses that create an image of the user's surroundings using array of sensors and proprioceptive feedback on the user's skin
- Conducted entrepreneurial market research to pitch idea and receive funding from Electrical and Computer Engineering department in order to begin design and implementation of product for market

**University of Texas Hyperloop Engineering** – Texas Guadaloop Electronics Team Fall 2019 – Present

*Student-driven organization designing, building, and testing an electronically propulsed Hyperloop pod utilizing air bearing technology*

- Researched, tested, and designated various on-board sensors for real-time data analysis and pod corrections during propulsion
- Leveraged different Arduino and Raspberry Pi microcontrollers using C++, Java, and Python to design and efficiently automate communication between hardware and software components of the pod

**SCORE Athletics –** Head Coach Fall 2019 – Present

*Organization dedicated to providing primary school kids with the opportunity to play team sports as well as committed mentors regardless of financial situation*

- Organized and coordinated weekly afterschool sports curriculum centered around sportsmanship, teamwork, leadership, and having fun
- Facilitated virtual afterschool meetups in the wake of COVID-19 to maintain mentorship and engagement for the kids

## RELEVANT COURSEWORK

**Completed:** Algorithms, Software Design & Implementation I & II, Computer Architecture, Operating Systems, Probability & Random Processes

**Current and Upcoming:** Senior Design, Embedded Systems Lab, Data Science Lab, Information Security and Privacy

## ADDITIONAL INFORMATION

**Honors:** University Semester Honors, Spring 2019

**Work Eligibility:** Eligible to work in the U.S. with no restrictions