

Sarvesh Sathish

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EDUCATION

University of North Texas, Plano, TX

Aug 2020-2024

GPA: 3.73 | LT GPA: 3.89 | Computer Science Track | Accepted into College Gifted and Talented Program at 15

Relevant Course Work: Data Structures, Algorithms, Memory Allocation, Linear Algebra, College Calculus II, CSCE 1030/40, Compilers, Logic Programming, Electricity and Magnetism, Differential Calculus, Discrete Dynamic Systems

Expert in: Java, C/C++, Python, Kotlin, Dart **Proficient in:** AWS, Git, Bash, HTML, CSS, React Native, Flutter, JavaFX

EXPERIENCE

Microsoft

April 2021 - Present

Artificial Intelligence Mentorship Program

- Selected for intensive mentorship program from 2000+ people in the 2021 Microsoft Azure AI hackathon to collaborate with a Microsoft team to build a full-stack flask application for sub-orbital nanosatellites.
- Utilized Azure Cognitive Services to script a neural network cluster to detect sparse vegetation in rural regions.
- Deployed dockers via Azure Machine Learning architecture that was streamlined to a Rest-API end point.

NASA Johnson Space Center

Aug 2020 – April 2021

Aerospace Scholar

- Developed satellite models using computer-aided design software and explored aerospace technologies.
- Conducted research about reaching, discovering, living, and working on Mars for future expeditions.
- Selected to prestigious Moonshot-Camp for summer 2021 for highest level of performance in 5-month program.

University of Birmingham

June 2020 – Present

Neuroimaging Researcher

- Utilized ADNI database for data imputation and image processing of over 3k neural fibrosis image scans.
- Independently led small react team under the guidance of Dr Vikram Konda specializing in neuro imagery.
- Performed semantic segmentation on MRI scans to simulate a spatial reconstruction of the human brain in VR.

PROJECTS

Project TetraNet:

- Fabricated a patent-pending nanosatellite that was used to augment wildfire mitigation via computer vision.
- Received international recognition from Intel and Microsoft for innovative project idea to address global issue.
- Awarded Global Sustainable Development award from Ricoh incorporation for best environmental project.

Router Throughput Prediction Model:

- Invited by Cisco Director of big data analytics to develop an autonomous network data prediction model.
- Incorporated machine learning algorithms to predict data route traffic at Cisco headquarters based on time series.
- Developed a fully functional Flask API streamlined into a fluid user-friendly experience into a python application.

OrangeAI

- Developed a CNN that recognizes over 2,500 foods and a comprehensive API of over 350k food nutritional data.
- Received Congressional commendation by presenting project at the 2020 USA Congressional App Challenge.
- Powered with Android's latest newest language Kotlin - a mature language for cross-platform integration.

LEADERSHIP & COMMUNITY INVOLVEMENT

International Aerospace and Astronomy Competition

March 2021 - Present

Ambassador

- Organized community events that aggressively promoted the IAAC as well as through various media platforms.
- Invited as a guest speaker at the 2021 TechRova science conference to inspire students to pursue a STEM career.
- Represent the IAAC establish a strong and vital IAAC group in Denton region, and inspired others in astronomy

Mobile App Development Club, Frisco, Tx

December 2019 – October 2020

President

- Coordinated several virtual events and workshops teaching students the basics of the Android Studio Framework,
- Provided students an opportunity to gain recognition with mobile apps through an intensive Cohort based system.
- Oracle OCP Java Developer I and developed expertise in JavaFX, Flutter, React, and Android Studio frameworks.

HONORS AND AWARDS

- Intel Science and Engineering Fair Finalist
- US Nasa Space Settlement Challenge *Gold Medalist*
- 2021 Microsoft Azure AI Hackathon Mentorship
- International Math IYMC Semi-Finalist