

MUKUND SHANKAR

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EDUCATION

BSc. Computer Science & Mathematics, *University of Maryland*

Expected December 2024

Minor in Robotics & Autonomous Systems.

Dean's List.

Global Communities Honors Program.

Relevant Coursework: Algorithms, Data Science, Programming Languages, Object-Oriented Programming.

GPA: 3.62

Nominated by and awarded the Golden Visa by the UAE government under the outstanding student category.

TECHNICAL SKILLS

Backend: Python, Java, C, Ruby, OCaml.

Networking/Front-end: SQL, HTML, CSS, SwiftUI.

EXPERIENCE

Undergraduate Teaching Assistant

August 2022 - Current

University of Maryland Computer Science Department

College Park, MD

- Teach discussion classes attended by 45 students twice a week, developing course concepts and proctoring quizzes.
- Hold office hours for over 300 students, helping students understand and implement complex Java projects.
- Organize additional review sessions before exams to explain OOP course content to 200+ students.

Intern and Youth Conference Participant

January 2020

International Renewable Energy Agency

Abu Dhabi, UAE

- Proposed using AI to predict outages to reroute energy, recognized by Director-General of European Commission.
- 1 of 20 selected based on leadership potential to interact with international dignitaries during debates.
- 1 of 45 selected globally based on academics to engage in debates to present renewable energy solutions.

PROJECTS

Aerial Object Detector. Applied transfer learning techniques on the deep learning YOLOv5 model to identify airborne balloons with a Mean Average Precision score of 91% as part of the Northrop Grumman Innovation Hack Week 2023. This project won first place in the hackathon. [Find the code here.](#)

Holistic Health Helper App. Developed a tool to help users develop a dynamic health plan using large language models. Currently working on mobile app. *This app is currently being considered for UMD's startup incubator.*

Heart Disease Prediction Software. Built a machine learning model which predicts heart disease at 91% accuracy using random decision forests in python in libraries such as numpy, pandas, sklearn, and seaborn. [Find the code here.](#)

Sports News Application Developed an application in Java Swing with a UI to allow users to view updated data on multiple sports through one user-friendly interface. Implemented through webscraping. [Find the code here.](#)

EXTRA-CURRICULAR ACTIVITIES

- Engineers Without Borders
- Robotics @ UMD
- Open Sourcing Software Development club
- UMD Club Tennis
- BigThink AI Club

LANGUAGES

Fluent in English, French, Tamil, Hindi/Urdu, **Advanced** in Arabic.