

Tamaghan Maurya

Computer Science

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EDUCATION

Bachelor of Science in Computer Science

University at Buffalo, The State University of New York

08/2017 – Present

Expected May 2021 | Buffalo, NY

Relevant Courses

- Digital Systems
- Computer Organization
- Algorithms & Complexity
- Full-stack Web Applications
- Artificial Intelligence
- Data Structures
- Discrete Structures
- Theory of Computation
- Programming Language
- Software Engineering

EXPERIENCE

Vice President and Software Engineer

University At Buffalo - AIAA | Micro-G (NASA)

08/2019 – Present

Buffalo, NY

American Institute of Aeronautics and Astronautics club student chapter.

Achievements/Tasks

- Working on a team project for NASA Micro-G NEXT, accepted to test at NASA's Neutral Buoyancy Laboratory at the Johnson Space Center in September 2020.
- Designing an autonomous surface vehicle capable of assisting astronauts in distress in a maritime environment, through the location and delivery of crew survival aids.
- Utilized a wide range of development tools, including TensorFlow, SDR, Raspberry pi, and Ultrasonic Sensor in Python, C++.

Research Project Software Engineer

UB Inc. [🔗](#)

01/2020 – Present

Buffalo, NY

Achievements/Tasks

- Working on a team research project as an Engineering Intramural sponsored by UB Sustainable Manufacturing and Advanced Robotic Technologies (SMART) COE under Dr. Andrew Olewnik.
- Developing software for an autonomous snowblower consisting of a fully integrated remote-controlled (RC) snow thrower system.
- Utilizing sensors like radar, thermal camera with programming in python and documentation on confluence

IT Student Assistant

University at Buffalo - Campus Living IT [🔗](#)

10/2018 – Present

Buffalo, NY

The Campus Living IT group at UB supports the hardware and software business systems on campus

Achievements/Tasks

- Refined existing ticketing systems, Improved creation, maintenance and installation of desktop operating system and software images.
- Handle day to day troubleshooting, upgrading, installation, and maintenance of desktop hardware and software.

SKILLS

C++/C

Java

Python

CSS

HTML

Javascript

Ocaml

MIPS

Verilog

Raspberry pi

Django

TensorFlow

Linux

Confluence

Circuit design

PROJECTS

Tamaghan.com (12/2019)

- Designed a personal website to display continually updated information about my skills and experiences. The project was developed with the knowledge of CSS/HTML.

VisionAssist | UBHacking 2019 (11/2019)

- Won UBHacking 2019 1st Place: Designed a User Interface to help people struggling with blindness navigate through their environment.
- This project utilizes tools like Raspberry pi and ultrasonic sensor with software implementation of TensorFlow and Computer Vision to process camera footage in real-time identifying objects in a user's path.

AIAA Club Website (06/2020 – 08/2020)

- Designed a website for the club to display achievements and projects with a dashboard that uses google sheets as the database.

Facegram (02/2020 – 05/2020)

- Designed a social media website for a full-stack web application course project with a chat app. Utilized HTML, CSS, Docker and Django.

Rhymes (04/2018)

- Designed a classic rhyming game by integrating a rhyming algorithm in JAVA on Eclipse for an introduction to computer science course.

HONOR AWARDS

International Student Scholarship

(08/2017 – Present)

Honor issuer University at Buffalo

UBHacking 2019 1st Place Winner (11/2019)

honor issuer Major League Hacking

- Placed 1st among 80 teams in UB Hacking 2019.

International Fiesta Winner (03/2018)

honor issuer University at Buffalo

- Won 1st place and represented Team INDIA at the cultural annual event at UB.