



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

- Intro to CS I and II
- Digital Systems & Data Structures
- Algorithms & Complexity
- Intro to Programming Language
- Computer Organization
- Intro to the Theory of Computation
- Intro to Web Applications
- Discrete Structures

EXPERIENCE

Software Team Engineer University At Buffalo - AIAA | Micro-G

08/2019 – Present

Buffalo, NY

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 May 2020.

Achievements/Tasks

- 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, Raspberry pi and Ultrasonic Sensor in Python, C++, and Arduino.

Project Software Engineer UB Inc.

01/2020 – Present

Buffalo, NY

Working on a team project as an Engineering Intramural sponsored by UB Sustainable Manufacturing and Advanced Robotic Technologies (SMART) COE.

Achievements/Tasks

- Developing an autonomous snowblower for residential and/or commercial areas consisting fully integrated remote-controlled (RC) snow thrower system
- Working on SnowBot detailed design documentation and supporting analysis.

IT Student Assistant University at Buffalo - Campus Living IT

10/2018

Buffalo, NY

The Campus Living IT group supports hardware systems that their 250+ professionals and 8,000 students rely on for their day-to-day activities.

Achievements/Tasks

- Facilitate operational needs of staff and professional end-users and preparing equipment for deployment and imaging of computers.
- Support administrative professionals in computer hardware/software and low-level computer/network issues.

SKILLS

C++/C

Java

Python

CSS

HTML

Javascript

Assembly (MIPS)

Verilog

Ocaml

Circuit implementation

TensorFlow

PROJECTS

Tamaghan.com (12/2019)

- 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)

- 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.

CodeNames (04/2018)

- Freshmen Year Project for Introduction to computer science class. Team-based guessing game built with Java GUI.

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

International Fiesta Winner (03/2018)

honor issuer University at Buffalo