

Tamaghan Maurya

Computer Science

✉ tamaghan@buffalo.edu

📞 716-380-8251

📍 Buffalo, New York

🌐 www.tamaghan.com

🌐 linkedin.com/in/tamaghan

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 & Data Structures
- Computer Organization & Discrete Structures
- Algorithms & Complexity
- Theory of Computation
- Web Applications
- Programming Language

EXPERIENCE

Project Software Engineer

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

08/2019 – Present

Buffalo, NY

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

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.
- Developing software for an autonomous snowblower for residential and/or commercial areas consisting of a fully integrated remote-controlled (RC) snow thrower system.
- Developing software to transmit all sensor trackings in realtime. programming in Python and documenting using Confluence.

IT Student Assistant

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

10/2018 – Present

Buffalo, NY

Achievements/Tasks

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

Ocaml

Verilog

TensorFlow

Microsoft windows

Mac OS

Linux

Circuit implementation

Confluence

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.

Rhymes (04/2018)

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

CodeNames (04/2018)

- Freshmen Year Project for Introduction to computer science class. Developed a Team-based guessing game built with JAVA GUI inn Eclipse.

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.