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TAMAGHAN MAURYA

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EDUCATION

Buffalo, NY	SUNY, University at Buffalo	Fall 2017 – Spring 2021
<ul style="list-style-type: none">• Major: Bachelor of Science in Computer Science (in major GPA:3.227)• Relevant Coursework: Digital System, Data Structures, Computer Organization, Discrete Structures, Algorithm & Complexity, Theory of Computation, Full-stack Web Application, Artificial Intelligence, Software Engineering		

EMPLOYMENT

Vice President	AIAA Student Chapter	May 2020 - Present
American Institute of Aeronautics and Astronautics (www.ubaiaa.org)		
<ul style="list-style-type: none">• Increased engagement by developing website for the club, implemented a dashboard to help club members to know events and meetings on go.• Preside over weekly club meetings and delegate work in the absence of the president.• Recruit upcoming freshmen, communicate SA participation, volunteer opportunities, and organize events.		
IT Student Assistant	University at Buffalo	Oct 2018 - Present
<ul style="list-style-type: none">• Refined existing ticketing systems, Improved creation, maintenance and installation of desktop operating system and software images by incorporating Lansweeper.• Handle day to day troubleshooting, installation, and maintenance of desktop hardware and software.		
Research Software Engineer	UB Inc.	Jan 2020 - Present
<ul style="list-style-type: none">• 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.• Developed software for an autonomous snowblower consisting of a fully integrated remote-controlled (RC) snow thrower system.• Utilize sensors like radar, thermal camera on Raspberry pi in python and documentation on confluence.		

SOFTWARE PROJECTS

Personal Website: www.tamaghan.com

AMSAR

- Worked 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.
- Designed an autonomous surface vehicle capable of assisting astronauts in distress in a marine time environment, through location and delivery of crew survival aids.
- Achieved autonomous driving capabilities by using Ultrasonic sensors for collision avoidance, open source library: TensorFlow for object detection and software defined radios (SDR) for direction finding.
- Utilized: OpenCV, Software defined radios, Python, C++, Shell, TensorFlow, Raspberry pi.

Vision Assist

- Designed a User Interface to help people struggling with blindness, navigate through their environment.
- Won UB Hacking 2019, 1st Place, among 80 teams, by making a prototype using raspberry pi and computer vision to process camera footage in real-time identifying objects in user's path.
- Utilized: OpenCV, Python, TensorFlow, Raspberry pi.

Facegram

- Developed an interactive social media website for a full-stack web app course.
- Incorporated Live like and comment buttons with Chat apps and rooms.
- Utilized: HTML, CSS, JavaScript, AJAX, Docker, Django, Python, Misaka.

SKILLS

- **Software:** (*proficient*): C++, Python, HTML, CSS, Git, JavaScript (*familiar*): Java, MIPS, Verilog, Ocaml, Bash.

