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TAMAGHAN MAURYA

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EDUCATION

Buffalo, NY   **University at Buffalo, The State University of New York**   **Aug 2017 – May 2021**

- **Major:** Bachelor of Science in Computer Science.
- **Relevant Coursework**: Digital System, Data Structures, Computer Organization, Discrete Structures, Algorithm & Complexity, Theory of Computation, Full-stack Web Application, Artificial Intelligence, Software Engineering, Programming Languages, and Computer System Administration.

EXPERIENCE

Vice President   **AIAA Student Chapter**   **May 2020 – Present**

American Institute of Aeronautics and Astronautics (www.ubaiaa.org)

- Increased engagement by 10% by developing website, included dashboard to help club members know events and meetings details on go. Devised and implemented google sheets as website database.
- Led AIAA conferences, presided over club meetings, and delegated work in absence of president.

Teaching Assistant   **University at Buffalo**   **Dec 2020 – May 2021**

- Undergraduate Teaching Assistant for CSE 312, Web Applications.
- Conducted office hours to assist students with programming. Graded weekly assignments and projects.

Coding Coach Intern   **The Coder School**   **Oct 2020 – Dec 2020**

- Mentored students in small groups and delivered one to one programming lessons online and in-person.
- Instructed students from a variety of backgrounds and ages to learn code. Students learn an array of various languages, from Block-Based Visual Coding to Python, C++, and web development.

IT Student Assistant   **University at Buffalo**   **Oct 2018 – Sep 2020**

- Installed operating systems and software images, refined existing ticketing systems, and improved creation by 4% by incorporating CI/CD tool Lansweeper.
- Maintained and troubleshoot hardware & software problems, prepared workstations based on user needs.

PROJECTS

Personal Website: *www.tamaghan.com*

AMSAR 2.0 | Software Lead in NASA's Micro-g NExT Design Competition   **Oct 2019 – Present**

- Built an autonomous boat capable of assisting astronauts, through location and delivery of crew survival aids.
- Achieved autonomous driving capabilities by programming Ultrasonic sensors for collision avoidance, TensorFlow for object detection, and software defined radios (SDR) for direction finding.
- Utilized: Python, C++, Shell, Multi-Threading, OpenCV, Linux, TensorFlow, Raspberry pi.

CollegeHub | CSE Demo Day Fall 2020 2nd Place   **Sep 2020 – Dec 2020**

- Designed a portfolio website service for college students with templates and themes to display professional experiences without needing to code.
- Implemented Django framework as a backend and handling live updates client side with AJAX and jQuery.
- Utilized: Python, JavaScript, HTML, CSS, Heroku, Django, Bootstrap, GitHub, ZenHub, and PostgreSQL.

Vision Assist | UB Hacking 2019 1st Place   **Nov 2019**

- Created a wearable user interface to help people struggling with blindness navigate through environment.
- Won UB hackathon 2019 among 80 teams, developed 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, Ultrasonic Sensors.

SKILLS

- **Software**: (*proficient*): C/C++, Python, HTML, CSS, JavaScript, Java, Django (*familiar*): Bash, Docker, SQL
- **Other**: Microsoft Office, Visual Studio, Linux, GIT, Bootstrap, jQuery, TensorFlow and Scrum management.