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TAMAGHAN MAURYA

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EDUCATION

BS in Computer Science, University at Buffalo, The State University of New York **Aug 2017 – June 2021**

- **Relevant Coursework**: Digital System, Data Structures, Computer Organization, Discrete Structures, Algorithm & Complexity, Full-stack Web Application, Artificial Intelligence, Operating Systems.

EXPERIENCE

Software Engineer Intern - Aspyre, Buffalo NY **Aug 2021 - Present**

- Working directly with CTO, developing and maintaining server-side network components in Nodejs for a social network with an AI-driven platform
- Collaborating with the client team and technology. Participating in all aspects of the software development life cycle (design, code reviews, testing, and deployment)

Teaching Assistant - University at Buffalo, Buffalo NY **Dec 2020 – May 2021**

- Conducted office hours to assist 50+ students with programming in Web Application Course
- Graded weekly assignments, and Assist Associate Professor with the delivery of course content

Vice President - AIAA Student Chapter, Buffalo NY **May 2020 – May 2021**

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

IT Student Assistant - University at Buffalo, Buffalo NY **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 Competition **Oct 2019 – Jun 2021**

- Proposed a solution to the SAVER Challenge, accepted to test at NASA's Neutral Buoyancy Laboratory at the Johnson Space Center in June 2021
- 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++, Python, HTML, CSS, JavaScript, Java, Django (*familiar*): Bash, Nodejs, MongoDB
- **Other**: Microsoft Office, Visual Studio, Linux, GIT, Bootstrap, TensorFlow and Scrum management