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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, Operbuffalo.eduating Systems.

Experience

Software Engineer Analyst – Goldman Sachs, New York NY **Feb 2022 – Present**

- Deliver scalable and resilient UI in Marquee Execution Team, implementing responsive UI while working in a client focused and agile environment.
- Building responsive web and desktop applications by utilizing React, Typescript with front end build tools and testing libraries including Webpack, Rush, Jest & Enzyme.

Web Developer – Range Marketing, Buffalo NY **Oct 2021 – Jan 2022**

- Design, implement and manage websites using WordPress. Create Plug-ins & themes using PHP & JavaScript.
- Manage front-end and back-end website development, troubleshoot and resolve website problems for clients and co-workers.

Software Engineer Intern – Aspyre, Buffalo NY **Aug 2021 – Sep 2021**

- Worked Directly with CTO and a team of 5, developed and maintained server-side network components in Nodejs for a social network app with an AI-driven platform.
- Collaborated with client team and technology. Participated in different aspects of software development life cycle and updated API for feed improvements.

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 facilitated Associate Professor with delivery of course content.

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 aiding 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*): React, Typescript, HTML, CSS, Javascript, Python; (*familiar*): Node, Django, PHP, C++.
- **Other**: Microsoft Office, Linux, GIT, Gitlab, Bootstrap, SASS, and Scrum management.