Utsharga Rozario

Email: rozariou@mcmaster.ca
Phone: 416-878-5147

Website: https://www.utshargarozario.com/
LinkedIn: https://www.linkedin.com/in/utshargarozario
GitHub: https://github.com/Utsharga

Education

McMaster University — Hamilton, Ontario
Bachelor of Engineering: Software Engineering GPA: 3.5/4.0 — August 2018 – April 2024

Work Experience

IBM – Toronto Labs — Toronto, Ontario
DevOps Developer Intern — May 2020 – August 2021

- Creating and maintaining machine learning models with a focus on big data.
- Working in an Agile, collaborative environment to understand and develop solutions for requirements. This includes designing, coding, and testing innovative applications in areas such as machine learning, computational linguistics, Natural Language Processing (NLP), advanced and semantic information search, extraction, induction, classification, and exploration.
- Assisting in implementing, testing, and improving algorithms in these areas, and will proactively identify and file patentable technology.
- Tools being used: **Gitlab, Eclipse, Java, Javascript, Angular js, Protractor**, etc

LexiValley Inc. – McMaster Innovation Park — Hamilton, Ontario
Software Engineering Intern — January 2020 - Present

- Working with software engineering undergraduate and graduates to create an interface for a car tracking device provided by the Innovation Factory, and also improving Innovation Factory's API and latency issues for their device.
- Developing the UI along with the algorithm for the project using **React.js** on the front-end and **Python** and **Node.js** on the back end.
- Tools being used: **GitHub** for version control, Google Maps **API**, **React.js, Node.js, CSS, HTML** and **Python.**

Technical Experience

McMaster Mars Rover - Faculty of Engineering, McMaster University — Hamilton, Ontario
Software Team – Communications Programmer — September 2019 - Present

- Working with software engineering students to create a communications program customed to run on the Nvidia Jetson with coherent computation with the antenna dish
- Formalized the communications program from a rudimentary module for a custom-made antenna to a program for the current upgraded model, making signal range increase by 20% (~10 meters)
- Tools being used: **ROS**, **Python**, **C++**, **Ubuntu** and Nvidia Jetson as the processing unit

McMaster Eco Car Challenge - Faculty of Engineering, McMaster University — Hamilton, Ontario
Connected and Automated Vehicles System (CAVs) Team – Human Machine Interface Programmer — September 2019 - Present

- Working with a multitude of different engineering students to program a Human Machine Interface for the User
- A raspberry pi 3+ is being used as an intermediate processing unit to take data from the CAVs interface and display it on the touch screen provided to the user.
- Tools being used: **MATLAB**, **Python**, **Linux**

Extra-Curricular Involvement

DeltaHacks - Faculty of Engineering, McMaster University — Hamilton, Ontario
Executive Member, Sponsorship — October 2019 - Present

- Worked with a cross-functional executive team (5 members) to obtain funding from 20 sponsorship sources of $105,000, yielding a year-over-year, 31% increase in funds, a 25% surge in company interest and a 12% improvement in sponsor retention
- Helped formalize a comprehensive design of the sponsorship packaging strategy, that amplified our offered opportunities by illustrating quantified statistics of our event, highlighting popular and attractive perks, and offering the freedom of customization to suit the companies needs
- Created and helped manage the 'Campus Ambassador' program across North American universities, which successfully increased the number of conference applicants by 15% (~2,100) within 5 months
- Negotiated with sponsors, by utilizing year-over-year metrics, to create compelling statistical analysis, resulting in a 12% increase in funding

Achievements

- McMaster Entrance Scholarship: $1000 for high school grades 90% to 95%. — August 2018
- Dean's Honor List: For Student with above a 3.60 GPA — January 2019 and August 2019

Skills

- **Experience working** with Python, C, C++, VB .net, Java, JavaScript, HTML, CSS, Bash scripting and MATLAB
- **Tools and Technologies:** OpenCV, React.js, Node.js, jQuery, Android Studio, Git, GitHub and Google Cloud
- **Interpersonal Skills**: Leadership, Team Management, Communication