

Sheshank Suresh

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Experience

Tesla | Software Engineer Intern | Palo Alto, CA Feb 2022 – Sept 2022

- Automated and analyzed over 30 End-of-Line Regression test sequences for Tesla's Industrial Storage Energy products improving time efficiency by 68% (**Python, Jenkins, XRAY, Vector CANape**)
- Developed internal tools and improved logging functionality for the Systems Integration Team to streamline efficiency in data collection and analysis by 20% (**Python, Jenkins, Robocopy**)
- Refactored Golang packages into python scripts to simulate real-time network traffic collected at various Megapack sites for comprehensive post-failure data analysis (**Python, Golang, PCAP, Wireshark, REST API**)

ConversationHEALTH | Software Engineer Intern | Toronto, ON Feb 2021 – Feb 2022

- Designed and developed fully function REST APIs to evaluate chatbot performance leading to a 40% performance increase in the following release (**JavaScript, Node.js, GCP**)
- Lead the development of data pipelines to create core visualizations and dashboards for client presentations improving client relations (**JavaScript, Node.js, Docker, BigQuery, Firebase, GCP, Superset**)

RBC - Royal Bank of Canada | Data Scientist Intern | Toronto, ON May 2020 – Aug 2020

- Created a data pipeline to automate the collection of data stored on Hadoop's Distributed File System (HDFS) and output team analytics on a Tableau dashboard (**Hadoop, Python, Pandas, NumPy, Tableau, Dataiku**)
- Designed and implemented a linter to ensure the Internal Audit team follows company-wide code practices and PEP 8 standard improving code clarity and error detection by 60% (**Python, Pylint**)

RBC - Royal Bank of Canada | Software Engineer Intern | Toronto, ON May 2019 – Aug 2019

- Designed GUI to ease FTP and SFTP of daily transactions while maintaining active logs to reduce excessive steps by 70% (**Python, Tkinter**)
- Created an interactive Slackbot in a team of 4 to simplify the onboarding process and provide a centralized location for internship resources for over 1500+ interns per term (**Python, Slack API**)

McMaster University | Teaching Assistant | Hamilton, ON Sept 2020 – Dec 2020

- ENG1P13: Integrated Cornerstone Design Project** – Object Oriented Programming (OOP), programming principles (Python), AutoCAD, materials engineering, and the laws and ethics in the engineering profession

Education

McMaster University | B. Eng., Electrical Engineering (Co-op) | CGPA: 3.5/4.0 Expected 2023

- Dean's Honor List (2020–2021), Honors Entrance Scholarship, Electro Federation Canada Scholarship
- Relevant Courses: Data Structures and Algorithms, Principles of Programming (Python, Java, C), Statistics

Projects

3D LiDAR Cave Mapper Jan 2020 – May 2020

- Prototyped a 3-dimensional embedded spatial measurement device using a time-of-flight sensor to replicate cave mapping in the mining industry (**C, Python, NumPy, Open3D, ToF, MATLAB, ARM Microcontroller**)

Arduino Water Level Indicator July 2018 – Aug 2019

- Designed a device to alert water tank levels minimizing water wastage and refill costs by 20% (**C++, Arduino**)

Extracurricular Activities

Google Developer Student Clubs | Technical Lead Sept 2020 – May 2022

- Develop and deliver technical workshops for over 400 student members interested in technology and software engineering concepts and applications

Other: Engineer Without Borders, Global Engineering Brigades, McMaster Makers Web Dev, McMaster Sumobots

Skills

Languages: Python, C, C++, Java, Golang, JavaScript, MATLAB, HTML5/CSS3, SQL

Tools and Frameworks: Git, Node.js, Express, Google Cloud Platform, Firebase, Postman, Docker, JIRA, XRAY

Hardware: Arduino, ARM Microcontroller (MSP432E401Y), Oscilloscope, Circuit Analysis