

JAINISH MEHTA

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SKILLS








- Python
- C/C++
- Java
- Javascript
- R
- AWS
- MATLAB
- SQL
- Selenium
- ReactJS
- Docker
- Git
- Linux
- Data Science

EDUCATION

University of Waterloo

Mechatronics Engineering
Option: Artificial Intelligence (AI)
Sept. 2018 - Apr. 2023

WORK EXPERIENCE

-  **Coinbase – Data Scientist** May 2022 – Present
-  **NVIDIA – Backend Software Engineer, Intelligent Video Analytics Team** Jan. 2022 – Apr. 2022
Python, C++, Bazel
- **Refactored** GXF codebase to ensure extensions were alongside Python bindings to ease build of files. Simplified import statements.
 - Developed **4** new major features involving transferring data between tensors, creating new APIs, and creating new python bindings to expose scheduling terms so developers can manipulate them from the original .yaml **graph** files.
-  **Teradata Corp. – Data Scientist** May 2021 – Aug. 2021
Python, Selenium, SQL
- Built a **polynomial regression machine learning model** to determine future client CPU utilization. Extracted 400 000+ CPU utilization data points using **SQL** and cleaned data and implemented model using **pandas, scikit-learn, numpy, pylab**, and **scipy**.
 - Queried and visualized over 15 client portlet usages over time using **Python, SQL, and Matplotlib**.
-  **Red Canari Inc. – Full Stack Software Developer (Cybersecurity)** Sep. 2020 – Dec. 2020
ReactJS, Python, AWS, RESTful API, Azure
- Developed serverless web app & Chrome ext. to avoid user spam mails by creating 300+ email proxies. Implemented using **HTML, CSS & ReactJS**.
 - Employed **AWS Amplify, AWS Lambda, and AWS Cognito** to create **RESTful API** backend services and **AWS CodePipeline** to set up CI/CD pipelines.
 - Spearheaded integration of a **Traefik reverse proxy** with a **Flask** authentication server. Validated JSON Web Tokens from Azure AD.
-  **Manulife Financial – DevOps/Quality Services Software Developer** Jan. 2020 – Apr. 2020
Java, Junit, Jenkins, Perfecto, Selenium, Postman, Grafana
- Reduced product release time by **10%** by overhauling **4 new health checks** for Manulife's ALM and DevTest environments in **Java**.
 - Applied **Postman** and **SQL** to parse and query Perfecto statistics to monitor product health and usage. Visualized results on **Grafana**.
-  **Mission Control Space Services – Robotics/Backend Developer** May 2019 – Aug. 2019
C++, Typescript, Embedded Software
- Programmed various algorithms in **C++**, including cubic spline interpolation, XML parsing for terrain classification, and subscribing ROS nodes to LiDAR.
 - Aggregated IMU and camera sensor data to determine tilt of rover on terrain, creating a novel calibration routine.
-  **Waterloop Embedded Software Team** Jan. 2019 – Present
- Modelled an Arduino program to interpret signals for a rotary encoder using **C**, improving **rotation accuracy by 5%**.
 - Co-led the generation and interpretation of message outputs from a RobotEq motor controller.

SIDE PROJECTS

- Object Length Identifier** Apr. 2020
- Implemented **OpenCV** in Python to measure the length of an object when measured against a reference object. Developed contours to identify and output object length. Output has accuracy of 95%.
- Thrifter: Machine Learning to Find an Optimal Match Between Two Images** Feb. 2019
- Collaborated with a team of 4 to engineer a web app using **HTML, CSS**, and **Express.js** (jQuery for API requests) that incentivizes users to thrift shop.
 - Utilized Google Cloud Platform Vision API for **computer vision** functionality, a MongoDB database, and **K-nearest neighbours algorithm** to generate an optimal match between images with **85% accuracy**.