Monir Nasserie

https://mn-coding.github.io

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EDUCATION

- **University of Waterloo** Waterloo, ON, Canada
  Bachelor of Computer Science; cGPA: 3.70 *Sept. 2020 – Apr 2025 (exp.)*

EXPERIENCE

- **Agriculture and Agri-Food Canada** Remote (Quebec City, QC)
  Python Developer *Oct 2023 - Present*
  - **Statistics Processing Optimization**: Optimized Google Earth Engine scripts in Python to generate images statistics 80% faster through parallel programming.
  - **Temporal Image Interpolation**: Created scripts through Python to generate images for missing dates using pixel-by-pixel (Whittaker–Shannon) interpolation.

- **TELUS Health** Remote (Cambridge, ON)
  Software Developer in Test *May 2023 - Aug 2023*
  - **Manual Test Automation**: Reduced manual QA time per feature release by ~ 6 hours through the automation of new test cases in Python through the TELUS Automation Framework for EMR product suite.
  - **Bugfixes**: Created bugfixes for 10+ failing test cases to improve regression testing quality and efficiency.
  - **Error Logging Feature**: Created pipeline feature to parse Jenkins logs and summarize output to Google Sheets to display Pass/Fail summaries alongside highlighting new failing test cases for manual review. Feature was utilized by other team members to monitor progress over Sprint and summarize application performance.

- **LifeWorks** Remote (Toronto, ON)
  Cloud Engineer Intern *Aug 2022 - Dec 2022*
  - **Cloud Resource Delivery**: Provisioned and modified cloud resources (virtual machines, servers, storage accounts, etc.) primarily through Microsoft Azure for 10+ internal teams and external clients. Managed existing virtual machines using VMWare and vSphere.
  - **Infrastructure as Code**: Maintained and configured (10+) Terraform azurerm modules for frequently requested Azure resources to increase provisioning time.
  - **Azure Resource Cost Calculation**: Worked to build client side of internal Azure resource cost estimation tool utilized by 5+ developer teams to estimate compute costs for requested resources.

- **AltaML** Remote (Calgary, AB)
  Junior Machine Learning Developer Intern *Jul 2021 - Aug 2021*
  - **Data Cleanup**: Transformed a dataset of 1.4 million tweets and metadata through Azure ML Designer Pipelines.
  - **ML Model Development**: Worked as part of a team to develop machine learning model for specific use case using Microsoft Azure and Azure ML Designer, along with Python scripts.

PROJECTS

- **GymBro**: Demo. Full-stack MERN (MongoDB, Express, React, Node) application with authentication system allowing users to log and track their workouts and graph progress over time. (Psst use dummy@google.com/Password.123 to see the visualization feature better)
- **Live Chatroom**: Real-time, multi-channel web application that allows communication between users, developed using Firestore, Bootstrap and JavaScript and authentication system.

SKILLS

- **Languages**: : Python, JavaScript, TypeScript, HTML, CSS, C++, SQL, Java, R, Bash, HCL, C#, ASP.NET, Swift
- **Technologies**: : Azure, AWS, Terraform, Ansible, React, React Native, Node.js, Power BI, Bootstrap, Firebase, Jenkins, Git

LICENSES & CERTIFICATIONS

- **Udemy**: Modern JavaScript - May 2022
- **Microsoft**: Azure Fundamentals - Jul 2021
- **Microsoft**: Azure AI Fundamentals - Jun 2021