DAN HOSI

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EDUCATION

McGill University   **Montreal, CA**
B.Eng. Software Engineering   *August 2020 – December 2023*
- **Graduate**
- **GPA:** 3.64/4.00
- **Relevant Courses:** Data Structures and Algorithms, Object Oriented Programming, Web Development, Applied Machine Learning, Relational Databases, Networks

SKILLS & INTERESTS

Tools: Azure, Azure Data Factory, Azure DevOps, Databricks, Power BI, Github, SSMS, VueJS, AngularJS, REST, Git, Jira
Programming Languages: Python, Java, SQL, JavaScript, CSS, HTML, C++, C, Terraform, YAML
Interests: Cloud Infrastructure, Azure, Data Analytics, Data Engineering, Machine Learning, Business Intelligence
Languages: English (proficient), French (proficient), Vietnamese (native)

PROFESSIONAL EXPERIENCE

Desjardins   **Montreal, CA**
Cloud Infrastructure Engineer Intern
Azure, Azure Data Factory, Azure DevOps, Terraform, YAML, Power BI   *May 2023 – August 2023*
- Quickly learned Azure cloud services to successfully deploy a new project's cloud infrastructure including Azure Data Factory, Azure Machine Learning, Azure Data Lake Storage Accounts.
- Developed automated YAML pipelines to manage Azure cloud services, saving $60 CAD per month.
- Managed and applied Azure accesses according to different roles, user groups and security requirements of the enterprise.
- Create automated data pipelines to clean, organize and prepare the clients' data for machine learning and data analytics on Power BI.

Hydro-Québec   **Montreal, CA**
Data Engineer Intern   *May 2022 – August 2022*
Python, Databricks, SQL, Apache Spark, Azure DevOps
- Learned and applied Python data processing techniques to integrate our clients' data into our SQL database.
- Solved post-deployment vulnerabilities, maintaining a 95% deployment success rate on Azure DevOps.
- Developed automated integration tests in Python, detecting data violations in our database.
- Contributed to a Python library of functions that manages our Azure SQL databases.

PROJECTS

Machine Learning Hackathon · **Github**   *October 2022 – October 2022*
Python, Pandas, Numpy, Sklearn, Git, NLTK
- Built a Python app that predicts the correlation between job titles and any resume.
- Developed a customized machine learning model to fit the project's goals.
- Led a team of 4 developers to complete the project in under 24 hours.

NFT Marketplace Website · **Github**   *January 2022 – April 2022*
VueJs, Vuetify, NPM, Java, JavaScript, CSS, HTML, SQL, REST, Gherkin
- Developed a web platform to mint and trade Non-Fungible Tokens (NFTs).
- Implemented a back-end to modify user account details, to create, view and add NFTs to a user's collection.
- Refined the front-end designs using CSS and HTML to follow the UI designs made on Figma.

LEADERSHIP

McGill Rocket Team   **Montreal, CA**
Avionics Subteam Project Lead   *August 2021 – September 2023*
- Managed and led 8 students to pursue an ongoing in-house rocket simulator and to develop a software validator tool to test the team's embedded systems.
- Implemented an Agile-like approach using a kanban board to facilitate project management and keep track of progress.
- Participated in design reviews to demonstrate work progress and to receive criticism from industry professionals.