HRITIK SHUKLA

Toronto, ON

Work Experience

May 2022 – Aug 2023	**Software Developer Intern** **Moneris – Toronto, ON**

- Main developer for the API initiative for our team, responsible for designing, developing, and documenting a RESTful service for external developers.
- Automated ticket processing using an asynchronous program hosted on Azure.
- Patched vulnerabilities and migrated internal tools to Azure Cloud.

Relevant Projects

MIDI-RNN: Classical Piano Generative AI *(Python)*

- Used a dataset of MIDI recordings of over 10,000 classical songs.
- Used PyTorch to design a neural network with features such as Recurrent NNs
- Successfully generated new music by taking the first 5 seconds of any classical song and continuing the piece from it.

ML Model for Predicting Real Estate Valuation *(Python)*

- Used a dataset of real estate valuations to create a model to predict valuation of a house given features of the house
- Used k-nearest neighbors' regression, polynomial regression, stochastic gradient descent, and k-fold cross validation techniques to generate models from scratch
- Gained experience working with NumPy, Matplotlib and learned ML techniques

Facebook/Discord Bot *(Python)*

- Delivers user-requested content such as weather, news, memes, images, in form of a chat message.
- Used Reddit API, Google Drive API, Discord API, OWM API, fb-chat, and Requests Library.
- Gained experience working with multiple REST APIs

Skills

Languages	Java, Python, C/C++, JavaScript, HTML, CSS, R
Tools	PyTorch, NumPy, Scikit-Learn, Scipy, Azure, Version Control, CI/CD Pipelines, Postman, Bootstrap
General Skillset	OOP Principles, Design Patterns, Algorithms, Data Structures, Version Control, Agile Development

Education

University of Toronto - *2019 to Present*
4th year, Computer Science Major, Math and Stats Minor