

# Rehan Gill

Rehan.mamoon.gill@gmail.com

## EDUCATION

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### University of Toronto | Bachelors of Applied Science in **Computer Engineering**

- Minor in **Artificial Intelligence**
- Certification in **Artificial Intelligence**

## EXPERIENCE

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### Software Engineer

May 2020 – Aug 2020

#### Amazon | Toronto, Ontario

- Built and deployed end to end authentication infrastructure for employee records, deployed to 100k+ users
- Built, tested, and deployed secure scalable API for processing authentication requests (Java, AWS)
- Wrote efficient, large scale caching algorithm to improve API latency improving user experience for 100k+ users
- Wrote design documents, wikis, readmes and final product presentations for the above project

### Data Scientist

May 2019 – Oct 2019

#### Moneris Solutions | Toronto, Ontario

- Developed LSTM for enterprise volume forecasting (TensorFlow, python, Hadoop)
- Developed clustering algorithms based on spending patterns for predicting the location of millions of card holders utilized by thousands of businesses for franchise location optimization (pyTorch, SQL)
- Developed highly accurate AI security layer which processes millions of card transactions daily, designed to identify card testers and fraudulent business (unsupervised learning, pyTorch)
- Created/tested many ML models such as MLP, RNN, SVMs, ElasticNet, etc. in the Big Data environment

### Machine Learning Engineer

May 2018 – Aug 2018

#### Royal Bank of Canada | Toronto, Ontario

- Created monitoring API to track application health and predict crashes using machine learning (linux, python)
- Built frontend for web app using angularJS and backend with NodeJS along with MongoDB (HTML5, JavaScript)

### Software Developer

June 2017 – Aug 2017

#### FE Enterprises | Toronto, Ontario

- Developed complete Employee Tracking System API to generate proof of location certificates along with additional features similar to Google Maps (C++, GIT, HTML, CSS)

## Personal Projects

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- Built ML model for classifying facial movements (live) off electric signals from facial muscles and received professor recognition (python, pytorch, tensorflow)
- Developed 2000+ Elo chess engine MLP (neural network). Trained using self-generated dataset
- Built automation software for Pokémon game (1100+ downloads) and Xbot software (python, JavaScript, CSS)
- Completed 30+ freelancer projects involving ML, web services (earned \$3,000+) (java, C++, HTML, JavaScript)

## SKILLS

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Python, C, JavaScript, C++, Java, R, SQL, Kotlin, Nodejs, TensorFlow, scikit-learn, MATLAB, PyTorch, Scala, Hadoop, tableau, NLP, CUDA, AWS, Pandas, NumPy, algorithms, data structures, OOD, API, OOP, Git, Azure, MongoDB, Linux, Unix, DynamoDB, Rust, Docker, Kubernetes, Spark, HTML5, HTML, ReactJS, JavaScript, CSS, RESTful API, Node.js, NoSQL