

ANDREW KIM

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Education

University of Toronto

09/2018 – 06/2023

Computer Engineering Major, GPA: 3.6

Toronto, Canada

Business Minor, Artificial Intelligence Certificate

Experience

AMD, Inc.

05/2021 – 04/2022

Machine Learning Engineer

Markham, Ontario

- Fine-tuned ray tracing neural network hyperparameters, resulting in a 60% increase in GPU benchmark performance
- Collected & preprocessed data for further testing to strengthen neural network's ability to generalize on the dataset
- Debugged, reviewed, & scripted test cases for Radeon GPU performance benchmarks, speeding up test suites by 300%
- Maintained & analyzed baremetal & VM performance testing on Linux machines, accelerating the CI/CD pipeline
- Led verification of Radeon parallel computing development & established benchmarks to run against NVIDIA CUDA

Deloitte TTL

05/2020 – 08/2020

Software Engineer

Toronto, Ontario

- Programmed Greenhouse database in Python & SQL to organize & query clients, deliverables, & milestone objectives
- Revamped Deloitte's onboarding & ramp-up process by developing point-and-click/platformer game with C# & Unity
- Built smart mirror to display informative personalized daily information & current events with voice detection on Raspi

Rogers Communications, Inc.

05/2019 – 08/2019

Software Developer

Toronto, Ontario

- Developed SQL control panel for cable advertisement, resulting in automated monitoring & switching commercials IDs
- Implemented login pages for SQL control panel to permit authorized users to view & modify cable advertisement swaps
- Designed control panel login pages in HTML/CSS/JavaScript & later shifted to React in an accurate & timely manner

Projects

Disney Financial Breakdown | *Python, Pandas, Power BI, Tableau*

10/2023 – 11/2023

- Extracted Disney's yearly financial statement data from public PDFs and cleaned data for preparation of manipulation
- Augmented data to create new, meaningful statistics for company examination, trends, and strong forecast predictions
- Presented data to draw conclusions and make observations to weigh the pros and cons of each source of revenue vs. cost
- Created Power BI dashboard and story to effectively communicate findings to technically inept clients and stakeholders

NASDAQ Stock Price Prediction Model | *Python, Tensorflow, Pandas, NumPy*

08/2023 – 09/2023

- Created a Recurrent Neural Network that predicts stock price trends, with a deviation of \$0.00-1.81 from market value
- Utilized GRU/Dropout model to capture sequential data's temporal hidden state features for time series analysis task
- Preprocessed data through select CSV attribute normalization & reshaping to achieve pertinent supervised learning data

Exercise Detection Neural Network Model | *Python, PyTorch, NumPy*

02/2023 – 04/2023

- Developed a convolutional-recurrent neural network hybrid model with MP4 input & label files to classify exercises
- Combined & preprocessed online & custom data to diversify dataset, prevent overfitting, & generalize its task better
- Achieved a 99% testing accuracy in detecting the correct exercise & form, outperforming the initial baseline model

California Housing Linear Regression Model | *Python, Tensorflow, Pandas, NumPy*

01/2023 – 02/2023

- Augmented data through feature engineering to generate new useful features to buttress training & observed correlations
- Preprocessed & normalized skewed dataset to produce Gaussian bell curve, unit interval data, producing stronger results
- Visualized many pairs of data to provide clarity on trends & objectives, in Matplotlib & Seaborn, useful at companies!

Chess | *Python*

06/2022 – 08/2022

- Implemented chess game that applies proper Object Oriented Programming style & follows single-responsibility principle
- Employed eclectic mix of algorithms & data structures to efficiently calculate legal moves & organize game state data

Skills & Interests

Data Science Languages/Tools: Python, Pandas, SQL, NumPy, Excel, Power BI, Tableau, MATLAB, R, Apache Spark

Other Languages/Tools: TensorFlow, Keras, PyTorch, JavaScript, Java, C, C++, C, React, Flask, MongoDB, Git, XML

Soft Skills: Communication, Emotional Intelligence, Interpersonal Skills, Self-Monitoring, Teamwork, Self-Starter, Initiative

Areas of Interest: Machine Learning, Data Science, Data Engineering, Data Analysis and Modeling, Statistics, Algorithms