

ANDREW KIM

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Education

University of Toronto

Computer Engineering Major, GPA: 3.6

Business Minor, Artificial Intelligence Certificate

09/2018 – 06/2023

Toronto, Canada

Experience

AMD, Inc.

Machine Learning Engineer

05/2021 – 04/2022

Markham, Ontario

- Fine-tuned ray tracing neural network hyperparameters, resulting in a 60% increase in GPU benchmark performance
- Collected data to strengthen neural network's ability to generalize on the dataset, yielding a 20%+ improvement
- Led verification of Radeon parallel computing development, driving \$2.6 billion of revenue, up 32% year-over-year
- 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

Deloitte TTL

Software Engineer

05/2020 – 08/2020

Toronto, Ontario

- Developed Greenhouse database in Python & SQL to organize & query clients, deliverables, & milestone objectives
- Implemented multiple enterprise-level microservice applications, facilitating user experience and B2B communications
- Revamped Deloitte's onboarding process during COVID-19 through developing a virtual office tour using C# & Unity

Rogers Communications, Inc.

Software Developer

05/2019 – 08/2019

Toronto, Ontario

- Constructed SQL control panel for cable advertisement, resulting in automated monitoring & switching commercial IDs
- Integrated login pages for SQL control panel to permit authorized users to view & modify cable advertisement swaps
- Conducted trend analysis to identify the strongest practices, improving experiences within the workplace as CoE member

Projects

Movie Star Database Website | SQL, Flask, React, REST API

01/2024 – Present

- Spearheaded the end-to-end full stack development of a dynamic web application, utilizing React.js, Flask, and SQLite
- Developed RESTful APIs using Flask, facilitating seamless communication between microservices & data exchange

Disney Financial Breakdown | Pandas, Power BI, Tableau

11/2023 – 12/2023

- Extracted Disney's yearly report financial statement data from 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 to effectively communicate findings to less technically versed clients and stakeholders

NASDAQ Stock Price Prediction Model | 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 | PyTorch, NumPy

02/2023 – 04/2023

- Developed a convolutional-recurrent neural network hybrid AI model that detects what exercise is performed in a video
- Achieved a 99% testing accuracy in classifying the correct exercise, suitable for distribution across several use cases
- Combined & preprocessed online & custom data to diversify dataset, prevent overfitting, & generalize its task better

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: Flask, React, JavaScript, Java, C, C++, C#, TensorFlow, Keras, PyTorch, MongoDB, Git, XML

Areas of Interest: Data Science, Data Engineering, Statistics, Backend Development, ML & AI, Full Stack Development

Soft Skills: Communication, Emotional Intelligence, Collaboration, Problem-Solving, Analytical Thinking, Self-Starter