Eddie Gao

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Skills

Programming Languages/Tools: Python, Ruby, Java, JavaScript, TypeScript, CSS, HTML, C#
Libraries and Frameworks: Ruby on Rails, GraphQL, Pandas, NumPy, Matplotlib, TensorFlow, Docker, Bootstrap, WPIlib

Education

Carleton University | Shopify Dev Degree – Bachelor of Computer Science Hon. Sep. 2024 – May. 2028

Work Experience

Shopify | Incoming Software Engineering Intern Aug. 2024 – May. 2028

- 1 of 15 globally selected for a 4-year joint employment program at Shopify.

Nokia | Future Tech Intern Jul. 2023 – Aug. 2023

- Performed with the AIMS team at **Bell Labs** quality control of Scandit image algorithm detection to determine an automatic product classification **accuracy of 90%.**
- Deployed data processing and visualization scripts through **Pandas** and **Matplotlib** to automate analytical findings on drone image collection.
- Addressed errors in flight analysis through plotted JSON data for Graybar to increase yield certainty by **43%.**

Carleton University | Machine Learning Research Internship Jun. 2022 – Aug. 2022

- Leveraged heterogeneous recommendation systems from the **Swiss Federal Institute of Technology (EPFL)** with **Python** and **Apache Spark** to replicate a **large-scale X-MAP** recommender, enhancing data-processing efficiency to handle **5.6x** more datum.
- Extracted an Amazon reviews dataset (2018) with metadata from **15.5 million** products to generate precise MAE results that recommended products for users based on different genres of interest at **87%** accuracy.

Projects

The Automaton Horror Game | Software Coordinator C#

- Directed the integration of pathfinding AI networks by optimizing player movement predictions through waypoints and navigation meshes, producing a **36%** increase in rendering performance.
- Project awarded **1st place** at Carleton University VV contest (2021-22).

Gender Prediction Neural Network | Software Developer Python

- Utilized **NumPy** to develop a neural network which predicts gender using datasets of heights and weights.
- Applied **stochastic gradient descent** and backpropagation to train the network and produce an outputted gender prediction with **95%** median accuracy.

Extracurricular

SYRC Robotics Team | Software Developer Jul. 2022 – Aug. 2024

- Deployed WPILIB obstacle-detection scripts in Java for international tournaments, resulting in a **14% increase** in global ranking (41st during 2023) and **56%** reduction of autonomous collisions.