ADARSH PADALIA

EXPERIENCE

Software Developer, 05/2020 to 11/2024
Prasad Research Inc. - Richmond Hill, ON
- ➤ Sole developer of a transaction-minimizing algorithm used by a $20-million hedge fund to reduce turnover by 50%
- ➤ Developed Prasad's unit-test and regression-test framework, used to validate published equity models
- ➤ Researched Markowitz portfolio optimization for use in real-world US equity strategies

Research Assistant, 11/2024 to Current
Far Data Lab - Toronto, ON
- ➤ Developing state-of the-art neural networks to simulate data center network performance
- ➤ Working with a small team of international researchers

EDUCATION

Bachelor of Science, Computer Science
University of Toronto St. George Campus, Expected Graduation 05/2028
- ➤ 99%+ in all 4 first-year courses (after midterm exams)

Math and Computing Contests
Achieved distinctions in:
- ➤ Canadian Computing Competition ('23, '24)
- ➤ Euclid math contest ('24)
- ➤ CSMC math contest ('22, '23)

PROJECTS

Github: github.com/adpad2
- ➤ Designed and trained a ProGAN from scratch using the Google Cloud Computing Engine to generate 234x200 images of athletes
  - ➤ Based on Aila's paper (ICLR 2018)
- ➤ Independently audited a 3rd-year University of Toronto machine learning course (ECE324) in the summer of 2021
- ➤ Created an artificial map generator, including an A* routing algorithm to generate realistic road networks
- ➤ Designed a football league simulator driven by data analysis of decades of real-world statistics

CONTACT

Address: Richmond Hill, ON
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SKILLS

Programming Languages
- ➤ Python
- ➤ SQL
- ➤ Java
- ➤ Javascript, HTML, CSS

Libraries
- ➤ PyTorch
- ➤ Pandas
- ➤ NumPy
- ➤ SciPy

Miscellaneous
- ➤ Git
- ➤ Excel
- ➤ Website Design
- ➤ Databases
- ➤ Data Scraping (e.g. Beautiful Soup)
- ➤ Quantitative Financial Analysis
- ➤ Google Cloud

INTERESTS

Board Games, Investing, Reading, Sports