

PREET MISTRY

Software Developer

in [linkedin.com/in/preet-mistry](https://www.linkedin.com/in/preet-mistry)

github.com/pmistry9597

EXPERIENCE

Deep Learning Researcher

MSRG - University of Toronto

📅 May 2023 – Feb 2024

Academic research group with computational methods focus

- Designed and developed a novel Graph Neural Network (GNN) architecture for molecular bond strength prediction (Python)
- Trained resulting model to 0.50 MAE performance, comparable to previous attempts in literature
- Developed and optimized model, training, and validation code to execute efficiently on distributed clusters

Full Stack Developer

Ultimate Kronos Group

📅 September 2021 – August 2022

Software development company for human capital solutions

- Devised and built a web application for managing company clients and services provided to them (Typescript/Angular)
- Collaborated with 3 colleagues to satisfy new security requirements for above app through creation of a containerized backend (Java)
- Managed and upgraded various scripts for automating tasks pertaining to company clients and provided services (Python, Bash)

Software Developer and Engagement Associate

STEM Powering

📅 July 2020 – September 2020

Charity with the core motive of democratizing STEM for all students

- Designed and created an educational space exploration and orbit simulation game (Javascript, HTML, CSS)
- Developed an orbit solver from scratch that solves Kepler's equations for the above game
- Designed and created an educational circuit game in collaboration with 1 other colleague (Javascript)
- Created the circuit simulator for the above game which uses linear equations and circuit theory

PROJECTS

Climate Hack 2022 - Computer Vision Competition

📅 March 2022

Satellite weather imagery prediction for next 2 hours given previous 1 hour of data

- Designed and developed a solution that placed 14 out of over 130 participants (Python)
- Attempted an assortment of architecture types developed for computer vision
- Utilized novel optimizers (settled on LAMB) and various techniques to train the final model

SKILLS

Python Java C++ Javascript
HTML CSS SQL Docker
GitHub Linux Windows

EDUCATION

Bachelor of Applied Science (B.A.Sc)

Computer Engineering

University of Toronto

📅 September 2018 – May 2024

GPA 3.21

ACHIEVEMENTS

Dean's List - First Year

University of Toronto

📅 September 2018 – April 2019

Completed first year with a GPA above 3.7

Member of the Month

University of Toronto Aerospace Team

📅 January 2019

For diligent and persistent effort towards developing and debugging the rocket avionics software

Fermat Contest - Top 25% Placement Worldwide

University of Waterloo

📅 February 2017

Mathematics competition organized by the University of Waterloo for high school students

EXTRACURRICULARS

UTRA - Autonomous Rover Team

📅 September 2022 – Present

Robot operating system + CV Developer

Iron Dragons - Dragon Boating Team

📅 September 2023 – Present

Paddler trying out for competitive team

INTERESTS

Piano Dragon Boating Astronomy
Running Metal Crafting Robotics