

Arnav Patil

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EDUCATION

University of Toronto

Ongoing - Apr 2027

BASc. in Electrical and Computer Engineering

Toronto, ON

- **Double Minor in Engineering Business and Artificial Intelligence Engineering**
- **CGPA: 3.5/4.0 with Dean's Honours List**
- **Extracurriculars:** IEEE UofT Student Branch, University of Toronto Engineering Society, Secondary School Interactive Crisis Simulation
- **Competitions:** MakeUofT 2024, Clarke Environmental Design Challenge 2024

TECHNICAL SKILLS

Languages & Tools: C/C++, Python (NumPy, pandas), MATLAB, Overleaf, LaTeX, Git

Coursework: Data Structures & Algorithms, Mathematical Modelling, Linear Algebra, Electrical Fundamentals

SELECTED PROJECTS

Static Personal Website with Hugo | arnav-patil-12.github.io

Jun 2024 - Jul 2024

- Developed a static personal portfolio website using Hugo, showcasing my coursework and achievements.
- Implemented custom themes and optimized structure for user-friendly navigation, enhancing accessibility.
- Utilized Git for version control and deployed the site on Github Pages using a continuous integration pipeline.

Deep Learning Framework with NumPy | [Neural Network from Scratch](#)

May 2024 - Jun 2024

- Created a modular deep neural net framework from scratch using NumPy.
- Documented mathematical derivations of forward pass, gradient descent, and other relevant components.
- Solved the XOR using a network with two linear layers with ReLU activation & MSE backpropagation functions.

Engineering Project Manager, Clockwork Yooyuball Project

Jan 2024 - Apr 2024

- Adapted an item from a video game to real life, from functionality to aesthetics, in a gated design project setting.
- Designed and prototyped a hard-coded circuit board with Arduino Uno to replicate the design's behaviour.
- Used Gantt Charts, status reports, and resource schedules to ensure project completion within the deadline.

EXPERIENCE

Sustainability Director

Apr 2024 - Ongoing

University of Toronto Engineering Society (EngSoc)

Toronto, ON

- Member of a Canadian Federation of Engineering Students (CFES) working group on sustainable curriculum change initiatives.
- Planned projects include action on the EngSoc footprint report, research on student/club funds divestment.
- Major initiative to drive resource sharing between UofT design teams call for divestment from fossil fuel sponsors.

Marketing Strategies Director

May 2024 - Ongoing

IEEE University of Toronto Student Branch (IEEE UofT)

Toronto, ON

- Responsible for defining marketing plans for events and creating strategy for distribution of marketing material.
- Running all IEEE UofT social media platforms (Instagram, LinkedIn, etc.) and event-specific social media.
- Establishing market insights and analytics to identify areas of strength and growth to reach target audience.

First Year Industrial Engineering Representative

Sept 2023 - Sept 2024

University of Toronto Engineering Society (EngSoc)

Toronto, ON

- Representing the concerns and interests of 70+ Indy students, serving as a liaison between students and EngSoc.
- Collaborating with EngSoc members and working towards solutions to enhance students' academic experience.
- Developing and implementing strategies that contribute to the growth and success of 1400 first-year students.