

# Om Patel

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## EDUCATION

University of Toronto | Toronto, Ontario

September 2023 – May 2027

B.S. in Computer Science and Physics | GPA: 3.44/4.0

## TECHNICAL SKILLS

Programming Languages: Python, JavaScript, HTML, CSS

Framework/Libraries: PyTorch, TensorFlow, Scikit-learn, Pandas, Matplotlib, Qiskit (IBM Quantum computing), React

Tools/Technologies: Linux (Kali), Unix, Git

## PROJECTS

### Sentiment Analysis for Predicting Stock Trends

**Tools:** Python, PyTorch, Scikit-learn, Pandas, Matplotlib

- Designed and implemented a deep learning project leveraging FinBERT and RoBERTa for sentiment analysis of financial news and social media, aimed at predicting stock price trends.
- Utilized PyTorch to build predictive models, demonstrating significant applications in market risk assessment and strategic financial planning.

### Quantum Computing Simulations and Qiskit Summer School

**Tools:** Python, Qiskit, IBM Quantum Platform

- Explored quantum circuit transpilation, execution on noisy hardware, and advanced topics like quantum combinatorial optimization and Hamiltonian dynamics, demonstrating the potential of quantum computing in solving complex problems beyond classical capabilities.
- Demonstrated quantum machine learning techniques, showcasing the potential of quantum algorithms to enhance traditional ML methods.

### Blocky Game

**Tools:** Python, PyGame

- Applied critical thinking and problem-solving to design and develop a game using PyGame, leveraging object-oriented programming and recursive algorithms to address complex design challenges and optimize gameplay.

### Portfolio Website

**Tools:** HTML, CSS, JavaScript, React

- Designed and developed a personal portfolio website to showcase projects, skills, and provide a contact form via EmailJs.

## RELEVANT EXTRACURRICULARS

**Volunteer Placement Specialist | PICS | Surrey, BC**

Summer 2023

- Streamlined volunteer placement processes and led sustainability projects aligned with UN Sustainable Development Goals (SDGs), showcasing leadership in global initiatives and enhancing operational efficiency.
- Exhibited strong organizational skills by creating and managing a comprehensive volunteer placement database, which improved coordination and engagement with educational institutions and NPOs.

**Campus Ambassador Intern | IMUN | Vadodara, India**

Sept 2022 to Oct 2022

- Led social media campaigns to raise awareness and engagement for IMUN conferences, crafted targeted advertising content to attract attendees, and provided prompt support as the primary student liaison for conference inquiries.

## ACOMPLISHMENTS

- Ranked 19th out of 14,000 in HPE Code Wars competition, awarded cash prize for performance.
- Python for Everybody Specialization Certificate, earned on Coursera in April 2023, comprising 5 courses.
- From Big Bang to Dark Energy by University of Tokyo Certificate obtained on Coursera.