MIHIR D. PATEL

mihirdpatel@live.com | 370 Lancaster Avenue, Haverford PA, 19041 | 202-696-0999

linkedin.com/in/mihirpatel03 | github.com/mihirpatel03

EDUCATION

Haverford College, *Haverford, PA*   BS May 2025

- **GPA:** 3.83/4.0; **Major:** Computer Science (3.83/4.0), Mathematics (3.85/4.0)
- **Relevant courses:** Analysis of Algorithms, Randomized Algorithms (Graduate Level), Theory of Computation, Computational Geometry, Concurrency and Co-Design, Applied Machine Learning (Graduate Level), Probability, Abstract Algebra, Real Analysis I+II
- **Awards:** Mathematics Senior Thesis Prize

Oxford University, *Oxford, UK*   MSc Expected September 2026

- MSc in Mathematics and Foundations of Computer Science

Sidwell Friends School, *Washington, DC*   September 2017 - June 2021

- **Awards:** 2021 US Presidential Scholars Program Candidate

EXPERIENCE

Haverford College, *Research Assistant*   May 2024 - Present

- Designed and analyzed complex computational problems in social networks, proving computational hardness and developing approximation algorithms to reduce advantage gaps through network editing, in collaboration with the University of Utah.
- Compiled comprehensive proof reports and delivered presentations on research findings.

Haverford/Bryn Mawr Computer Science, *Teaching Assistant*   August 2022 - December 2023

- Guided students through problem sets and labs in office hours for CMSC B340 Analysis of Algorithms and CMSC H107 Introduction to Computer Science and Data Structures
- Helped design and grade assignments for 20-30 advanced computer science students

George Washington University, *Research Assistant*   June 2023-July 2023

- Studied variations and improvements to Selection Algorithms under the guidance of Professor Amrinder Arora, specifically Quickselect
- Proposed dynamic pivot selection, summarized findings in a Medium article

Independent Coding Project   July 2022

- Developed Chrome Extension to aid in course selection on Haverford's academic portal
- Processed class schedules and prerequisites to highlight courses available to the user

SKILLS AND LANGUAGES

Java, Python, LaTeX, Javascript, C#, HTML, CSS

ACTIVITIES

Havercode (Technology Club), *Board Member*, Haverford College   September 2021 - 2024

Men's Ultimate Frisbee, *Team Captain*, Haverford College   September 2021 - Present