Aditya Patel

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EDUCATION

Worcester Polytechnic Institute| *Class of 2027*

B.S. Computer Science | **Emphasis on Data Science, Business, and FinTech** |

I aspire to pursue an MBA to complement my technical expertise with advanced business leadership skills.

- GPA: 3.91 | Dean's List of Honors, Charles O Thompson Scholar
- Applied object-oriented design to build modular software systems and developed systems programming and algorithmic skills for optimization. I designed databases using SQL, collaborated on software projects with engineering methodologies, and explored AI and probability for machine learning applications. Mastery of Calculus I-IV supported technical problem-solving and analysis.
- *Clubs*: South Asian Student Association (<u>President</u>)
- Led an executive team in organizing campus-wide events celebrating South Asian culture. Lead weekly meetings and events of up to 300 members. Managed budgeting, sponsorships, and outreach efforts, collaborating with student government, companies, and food vendors. Overseeing marketing campaigns to increase engagement and membership.

EXPERIENCE

WPI - Software Engineering Intern **(Academic Project)**   Oct 2024 - Dec 2024

- WPI's CS Department, enhancing efficiency for students and faculty.
- Designed an intuitive student UI for browsing and applying to SA positions, incorporating a smart ranking algorithm based on academic performance and experience.
- Built instructor tools for job postings, application reviews, and candidate assignments, improving faculty workflow and decision-making.
- Integrated Azure SSO for secure authentication. Deployed using Docker, AWS EC2 & RDS, ensuring scalability and reliability.

Comet - Flight Test Software Consultant Intern   June 2022 - October 2022

- Tested a dynamic UI for college discovery, empowering students to find institutions based on preferences and location. Used Excel for tracking and PowerPoint to guide decisions, improving user engagement and website performance.
- Conducted market research within focus groups to find concepts for better engagement of users and placed **#2** in a competition (promoting service subscription) amongst 200 colleagues, using strategic outreach to schools.
- Actively debugged, within a Discord work group to troubleshoot, flag critical risks, and offer strategic input, ensuring a smooth and timely website launch.

PROJECTS

Machine Learning-Based Facial Expression Recognition Project

- Developed a CNN-based model to classify facial emotions using the FER2013 dataset (~57% accuracy). Optimized performance through hyperparameter tuning, data augmentation, and evaluation with confusion matrices and misclassification analysis.

AI-Driven Reversi Game (Java)

- Developed an AI-powered Reversi game in Java, featuring intelligent move validation, dynamic piece-flipping, and a strategic AI that prioritized optimal board positions like corners. Engineered a smooth gameplay experience with real-time input handling and automated winner calculation, demonstrating advanced skills in algorithm design, object-oriented programming, and game development.

SKILLS AND INTERESTS

Windows|IOS|Android|Microsoft-Word|Microsoft-Excel|Networking|LinkedIn|Social-Media-Marketing|Gaming|Video Editing|Photoshop|Writing|Photography|Sketching Plans|Real-Estate|Cooking|Blogging|Public-Speaking|