Ronan Patel

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EDUCATION

University of Wisconsin-Madison   **Madison, WI**
Bachelors of Science   *Expected Graduation, May 2027*
Major: Computer Science | **Minor**: Entrepreneurship
Certifications:
- Foundations of Cybersecurity, Google, 2024
- Machine Learning with Python, IBM, 2024
- Introduction to Large Language Models, Google, 2024

Monroe-Woodbury High School   **Central Valley, NY**
High School Diploma   *Sep 2019 – June 2023*
- **GPA:** 4.0/4.0, *National Honors Society Member, High Honor Roll*

PROFESSIONAL EXPERIENCE

American Arbitration Association   **New York, NY**
Software Development Intern   *May 2025 – Aug 2025*
- Collaborated on a C#/.NET project to auto-fill arbitrator letter templates from an existing SQL database, replacing an old Oracle system to use modern .docx documents instead of an outdated .rtf format.
- Built a reusable .docx templating module using mail merge fields to support multiple letter types and dynamic content.
- Wrote unit tests and participated in code reviews while using Git branching and pull requests to maintain code quality.
- Participated in AI workshops to explore integrating AI into existing projects and provided feedback for new adr.org website.

Monroe-Woodbury Central School District   **Central Valley, NY**
Micro Computer Center Intern   *June 2022 – Sep 2022, June 2023 – August 2023*
- Provided technical support by troubleshooting and repair of educational technology including Chromebooks, smart boards, and projectors, enhancing classroom functionality and teacher productivity.
- Managed and updated the inventory of technological assets using Asset Panda, ensuring accurate distribution and auditing of devices throughout the district.
- Provided comprehensive technical support to staff and students, improving operational efficiency and technology accessibility.

Monroe-Woodbury High School Tech Desk   **Central Valley, NY**
Chief Operating Officer   *Sep 2021 – June 2023*
- Co-founded and directed the first student-led tech support desk, significantly enhancing device management and repair services for student Chromebooks.
- Managed device inventory using Excel and provided loaner devices to students as needed.
- Recruited, interviewed, and trained new team members to scale support services in response to growing demand, establishing a sustainable volunteer staff structure.

PROJECTS

Personal Projects   **Remote**
Home Lab, Web Design, Network Management   *Present*
- Created and developed a custom home lab for my family's new house expected to complete construction in late 2025 which includes the use of Home-Assistant.io creating custom zones, using presence sensors for automatic lights, the use of Ubiquiti networking to manage devices and IoT along with exterior lighting, and cameras thoughtfully engaged with our architect.
- Designed own domain name along with website to maintain professional online presence using G-Suite and Google Admin Console.
- Designed and deployed a custom VPN solution on the cloud using Linux and WireGuard enhancing security for international travel.

Stock Trading Machine Learning Algorithm   **Remote**
Project Partner   *Sep 2024 – Present*
- Partner in an advanced, end-to-end stock trading system that combines data preprocessing, feature engineering, and machine learning model training.
- Developed to process historical stock and sentiment data, trains predictive models for stock price forecasting and risk estimation, and then integrates with trading APIs to execute trades with comprehensive risk management and portfolio optimization strategies.

ACTIVITIES AND LEADERSHIP

Diverse Leaders for Tomorrow   **Madison, WI**
Selected Member   *Sep 2024 – Present*
- Selected to participate in the national DLT career incubator program to grow network, professional, and career development skills.
- Participated in professional development workshops, building strong resume, cover letter, interviewing, and networking skills.

FIRST Tech Challenge   **Warwick, NY**
Lead Programmer & Engineer   *Sep 2019 – April 2023*
- Led the development of advanced robotic programming, incorporating Java and TensorFlow for autonomous operations.
- Designed key components of the 3-D printed robot using AutoCAD, contributing to consecutive design awards in 2022 and 2023.
- Finalist for FIRST Dean's List Award in 2023 for exemplary leadership and impactful community contributions.

SKILLS

Programming & Tools: SQL, Java, Python, C#, .NET, TensorFlow, HTML, Linux
Interests: Cybersecurity & Networks, Business, Real Estate, Engineering, Sports, Cars, Airplanes, Travel