

Patrick McCrone

716-445-2449 | pjmccrone@outlook.com | [linkedin.com/in/patrick-mccrone-77b92028b](https://www.linkedin.com/in/patrick-mccrone-77b92028b) | patrickmccrone.com

EDUCATION

State University of New York at Fredonia

Bachelor of Science in Computer Science

Fredonia, NY

Aug. 2022 – May 2025

TECHNICAL SKILLS

- Over a decade of hands-on experience building, upgrading, and diagnosing PC hardware
- Skilled in component compatibility, BIOS configuration, driver installation, and system tuning
- Experienced with Windows, macOS, and basic Linux system management
- Familiar with IT ticketing and issue tracking systems, including Jira

CERTIFICATIONS

TestOut Security Pro

Dec. 2022

- Validated knowledge in network security, access control, authentication, risk management, and security best practices

Currently preparing for CompTIA A+

Expected Summer 2025

- Studying IT hardware, networking, OS, troubleshooting, and basic security

EXPERIENCE

Quality Engineering Intern

Sep. 2024 – Dec. 2024

3AM Innovations

Buffalo, NY

- Worked closely with the Quality Engineering team to design and implement solutions enhancing the efficiency of software QA processes
- Automated repetitive system validation and data processing tasks using Python scripting; collaborated with IT and engineering teams to integrate API-based solutions into testing pipelines
- Utilized Git version control, Agile methodology, and collaborative issue tracking to troubleshoot software and system defects in coordination with developers and QA team

Assistant Head Swim Coach

May 2020 – Present

Eagle Ridge Recreation Association

Orchard Park, NY

- Led a team of 120 youth athletes (ages 4–18), providing instruction, mentorship, and high-pressure problem-solving in a fast-paced seasonal environment

PROJECTS

Conductor | *Python, Tkinter, Postman API, VS Code*

Sep. 2024 – Dec. 2024

- Developed a Python-based automation tool, *Conductor*, to streamline repetitive tasks and data processing workflows within the workplace
- Implemented input persistence to automatically save and reuse user-provided data across sessions
- Integrated environment variable management using JSON configuration files for flexible and secure runtime behavior
- Enabled CSV parsing, API integration, and random input generation for comprehensive automation capabilities
- Collaborated with designer and project manager to meet expectations with the project
- Added robust error handling and logging to improve script reliability and debugging efficiency

Event Management Web App | *Neon DB, Next.js, Node.js*

Jan. 2025 – May 2025

- Designed and implemented backend database and API integration to support event scheduling and announcement management
- Led development of key backend features, managing database schema, query logic, and server routes for user and event data
- Presented completed application to university faculty, earning commendation for functionality and real-world applicability