

# Patrick McCrone

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## EDUCATION

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### State University of New York at Fredonia

*Bachelor of Science in Computer Science*  
*Expected Graduation: May 2025*

Fredonia, NY

*Aug. 2022 – Present*

### Canisius University

*Major in Computer Science*

Buffalo, NY

*Aug. 2021 – May 2022*

## EXPERIENCE

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### Quality Engineering Intern

*3AM Innovations*

Sep. 2024 – Dec. 2024

*Buffalo, NY*

- Collaborated with Quality Engineering team in order to develop a project to improve software quality assurance tasks
- Developed and improved automation scripts written in Python used to interact with partner API
- Sketched and designed new features to be implemented into product

### Assistant Head Swim Coach

*Eagle Ridge Recreation Association*

May 2020 – Present

*Orchard Park, NY*

- As an assistant head coach, led and coached a swim team of about 120 kids ranging from ages 4 to 18 during summers
- Developed lineups for competitive swim team for multiple swim competitions
- Helped children progress as competitive swimmers through bettering of swim techniques and speed
- Set up audio systems for swim competitions

### Head Lifeguard

*Eagle Ridge Recreation Association*

May 2018 – Present

*Orchard Park, NY*

- Led a team of about 20 lifeguards during summers to provide a safe pool environment for patrons
- Assisted and cared for patrons in need of help or first aid
- Collaborated with pool manager to enforce rules upon lifeguard staff
- Ran security camera system for club grounds

## PROJECTS

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

Sep. 2024 – Dec. 2024

- Developed back-end Python scripts to work with front-end GUI to send user-inputted data and random data in mass to partner API
- Collaborated with designer and project manager to meet expectations with the project
- Project is still currently in use for software quality assurance purposes

### To-Do List Mobile Application | *Swift, iOS, Firebase, XCode*

Aug. 2024 – Aug. 2024

- Developed a to-do list mobile application for iOS devices that allows users to store a list of items that could be marked as done or incomplete and could also be removed from the list
- Implemented user authentication and online data storage through Firebase

### Best Buy Graphics Card Web Scraper | *Python, Selenium API, VS Code*

Jan. 2021 – June 2021

- Developed a web scraper to automatically refresh Best Buy web pages with graphics cards on them until a graphics card was in stock and would automatically check out on home computer while away at school during high school
- Implemented through Python using Selenium WebDriver API
- Program was successful in purchasing a graphics card during the 2020–2021 GPU market shortage

## TECHNICAL SKILLS & CERTIFICATIONS

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**Languages:** Python, C++, C#, Swift, SQL, Java, HTML/CSS, JavaScript, Perl

**Developer Tools:** Linux, Git, VS Code, Visual Studio, XCode, Eclipse, SQL Server Management Studio, Firebase

**Certifications:** TestOut Security Pro

## COURSEWORK ALIGNED WITH CAREER OBJECTIVE

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- Data Structures
- Design & Analysis of Algorithms
- Object Oriented Programming
- Relational & Object Databases
- Systems Programming