

# Ruben Taylor

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## EDUCATION

Michigan State University, College of Computing

Bachelor of Science, Computer Science

East Lansing, MI

May 2026

## TECHNICAL SKILLS

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

**Developer Tools:** Git, Docker, MySQL, LaTeX, Windows, Linux, MacOS, Visual Studio Code

**Certifications:** GFACT (SEC 275)

## PROJECTS AND COMPETITIONS

Multi-Threaded TCP Server | C++, Git

June 2024

- Developed a TCP Server capable of handling over 100 simultaneous user connections, optimizing responsiveness and scalability
- Implemented a command parsing system, enabling users to interact with the server and each other through over 10 custom commands
- Enhanced server functionality to support user-to-user communication, enabling seamless exchange of messages among over 100 users concurrently

Android Battery Optimization App | Java, Git, XML

January 2024

- Led a team of 3 to successfully design, develop, and implement a battery optimization application using Java and XML within Android Studio
- Resulted in a 200% increase in battery lifespan through strategic charge management

CyberStart America | Python, Java, C, HTML + CSS

October 2022 – January 2023

- Received \$4,000+ NCSF Scholarship and achieved highly-regarded GIAC Certification, validating advanced knowledge and skills in information security, computer hardware, computer software, and computer programming
- Achieved first place in the state of Illinois in a nationwide cybersecurity competition
- Applied a diverse range of penetration testing techniques and crafted programs using a multitude of programming languages

## EXPERIENCE

Math Tutor

August 2022 – June 2023

Lane Tech College Prep

Chicago, IL

- Utilized various teaching techniques based on individualized learning preferences and strengths of 200+ students to best support and reach academic goals, while demonstrating adaptability and flexibility
- Delivered personalized one on one tutoring to students enrolled in Algebra through AP Calculus 1, focusing on reinforcing fundamental concepts and elevating overall math proficiency levels

Chess Tutor

June 2022 – August 2022

After School Matters

Chicago, IL

- Demonstrated expertise in chess strategy and tactics, providing effective tutoring to 50+ players of various skill levels and ages
- Formulated hands on chess games, specifically tailored for beginners to better explain piece function and material count, receiving positive feedback from 90% of participants
- Motivated students to elevate their skills by providing constructive feedback and acknowledgement of their accomplishments, resulting in a 20% increase in overall attendance

## INVOLVEMENT

Quant Finance Club | Member

September 2023 – Present

Association for Computing Machinery | Member

September 2023 – Present

## AWARDS

CyberStart America Scholar and Finalist

April 2023

NCSF Scholar With Honors + Scholarship

April 2023