

# Ruben Taylor

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## EDUCATION

**Michigan State University, College of Engineering** - East Lansing, MI

*Bachelor of Science, Computer Science*

GPA: 3.76

May 2027

## TECHNICAL SKILLS

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

**Certifications:** GFACT (SEC 275)

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

## PROJECTS AND COMPETITIONS

**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

**Physics Ball Simulation** | *Python*

January 2024

- Designed a ball physics simulation using python, utilizing math for precise simulations
- Implemented customizable parameters for objects and ball properties, allowing adjustment for weight, mass, elasticity, and friction
- Fostered an environment where players could interact dynamically with environment by implementing collapsible structures, modifying ball's gravity, and launching the ball in user-defined directions

**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

Spartan Hackers | *Member*

September 2023 – Present

## AWARDS

**CyberStart America Scholar and Finalist**

April 2023

**NCSF Scholar With Honors + Scholarship**

April 2023