

# MATTHEW MORRISON

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## EDUCATION

### **ROCHESTER INSTITUTE OF TECHNOLOGY (RIT)**

*Bachelor of Science in Computer Science – GPA: 4.00*

*Minor in Free and Open-Source Software and Free Culture*

*Minor in Exercise Science*

- Dean's List: All Semesters
- Member of the Honors Program at RIT

**Rochester, NY**

*Aug. 2022 – May 2026*

## WORK EXPERIENCE

### **RIT Cybersecurity Institute, Laboratory of Software Design and Productivity**

**Rochester, NY**

*Software Security Researcher*

*April 2023 – Aug. 2023*

- Spearheaded contributions to a government-sponsored research project, focusing on Software Bill of Materials (SBOM) and Vulnerability Exploitability eXchange (VEX) documents.
- Developed tools relating to SBOM and VEX: SBOM-in-a-Box and SBOM-Plugfest.
- Played a pivotal role as a contributor to a comprehensive research report, critically analyzing both Open Source and Proprietary SBOM tools.

### **Our Stonehenge LLC**

**Frederick, MD**

*Website Designer*

*June 2020 – Nov. 2023*

- Conceptualized and executed a visually appealing and user-friendly website for Our Stonehenge family business, employing creativity and technical expertise.
- Utilized the WIX interface to design and organize the website, ensuring a seamless and engaging user experience.

## PROJECTS

### **Implementation of Computer Science Theory Mathematical Results – Python**

- Developed comprehensive Python program showcasing principles and results from automata theory, formal languages, and computability.
- Visualized complex mathematical results acquired during the Introduction to Computer Science Theory course, showcasing a deep understanding of theoretical concepts.

### **Password Bank – Python**

- Constructed a program with Python's Tkinter package to hold multiple users' login information within binary files encrypted with Pyca cryptography's symmetric encryption recipe.

## EXTRACURRICULARS

### **Sigma Alpha Mu, Delta Omega Chapter**

**Rochester, NY**

*Philanthropy Chair*

*Dec. 2023 – Present*

*Scholarship Chair*

*May 2023 – Dec. 2023*

- In charge of planning and execution of fundraising philanthropic events for the chapter.
- Enforced academic policies and supervised brothers that fell below the GPA standards of the chapter.

### **Ice Hockey Goalie**

**Various Locations**

*2010 – Present*

- Current goaltender for the RIT Men's ACHA Club Ice Hockey Team.

## SKILLS

- **Languages:** Python, Java, C, C++, SQL, HTML/CSS, Angular
- **Technologies:** GitHub, Git, Software Bill of Materials (SBOM), Vulnerability Exploitability eXchange (VEX), Database Management, Algorithm Design, Cryptography Concepts
- **Soft Skills:** Adaptability, Time Management, Problem Solver, Organized, Teamworking Abilities, Agile Development