

Zachary England

england.zachary14@gmail.com | 302-584-1274 | [Github](#) | [LinkedIn](#)

EDUCATION

University of Delaware, College of Engineering: Newark, DE September 2020 - Expected May 2024
Bachelor of Science in Computer and Information Sciences (CIS): Concentration in Cybersecurity
GPA: 3.73, Dean's List in 5 of 6 semesters completed

ACTIVITIES

University of Delaware CTF Club Newark, Delaware
Vice President *September 2021 - Present*

- Managing all meetings and events with members of the club, the executive board, and senior advisors
- Coaching others on the team in ethical hacking skills and collaborating with them in worldwide competitions
- Learning increasingly difficult cybersecurity skills and participating on a top 10 US academic team

EXPERIENCE

University of Delaware Computer and Information Sciences Department Newark, Delaware
Teaching Assistant *September 2022 - Present*

- Nominated by faculty as a top performer to participate in a project to boost engagement for all CIS classes
- Mentor 60+ students per semester in both in-person and online formats, conveying x86, ARM assembly, and C++ language fundamentals in a clear and concise manner
- Implement changes to ARM project tasks and exams to improve fairness, relevance, and student understanding

M&T Bank Buffalo, New York
Technology Intern *June 2023 - August 2023*

- Automated deployment of 500+ SSIS packages using a CI/CD pipeline with Python, GitLab, and PowerShell to free up time spent manually running them, saving over \$2 million per year for the bank
- Shadowed cybersecurity CSOCs and other cyber industry professionals to explore the collaboration of different cyber sectors in protecting bank infrastructure from threat actors
- Actively participated in daily team meetings, provided valuable ideas and feedback to improve project effectiveness, and assisted in mediating problems

University of Delaware Cybersecurity Partnership Newark, Delaware
Volunteer *June 2022 - August 2022*

- Participated in many Capture The Flag (CTF) competitions focused on exploitation and reverse engineering; these competitions involved solving live, challenging cybersecurity problems in a limited time
- Collaborated well with other subject matter experts to exchange knowledge, complete assignments, and perform well in competitions
- Teamed with a cybersecurity professor to teach multiple sessions for incoming college freshmen

Code Ninjas Wilmington, Delaware
Code Sensei/Summer Camp Teacher *June 2021 - August 2021*

- Assumed leadership role in enhancing curriculum for student comprehension and coordinated scheduling with other instructors
- Taught groups of 15-20 elementary school kids intro level C++ and Java object-oriented programming daily
- Focused on parent and student needs by providing updates to parents on their student's progress

SKILLS

- **Programming Languages/Libraries:** x86 and ARM assembly, Python, C++, C, C#, SQL, Java, Bash, JavaScript, TypeScript, CSS/HTML, React, Flask, Socket.io, and Pwntools
- **Tools and Services:** Ghidra, IDA Pro, Z3, radare2, gdb, GitLab, Docker, MS Azure, AWS, Oracle, and Firebase
- Proficient in modern x86 heap exploitation and reverse engineering techniques