Erica Marghescu

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EDUCATION

University of Maryland - College Park, MD **Aug 2020 – May 2024**

- B.S. **Computer Science**, Minor in **Cybersecurity** GPA: 3.65/4.00
- President's Scholarship | ACES Honors Program | Dean's List
- Relevant Coursework: Data Science, Computer Vision, Algorithms, Programming Languages, Computer Systems, Discrete Mathematics, Object Oriented Programming I & II, Calculus I & II, Foundations in Cybersecurity, Policy of Cybersecurity

SKILLS

- **Languages/Technologies:** Java, C, JavaScript, HTML, CSS, Shell, Ruby, OCaml, R, Matlab, React
- **Hobbies:** Competitive Skiing, Martial Arts, Flute/Piccolo Performance, Teaching, French

PROFESSIONAL EXPERIENCE

Software Engineering Intern - **Palo Alto Networks** **May 2022 - Aug 2022**

- Integrated with a team of full-time employees, using React to improve UI for anomaly data within Prisma Cloud
- Implemented and tested a full feature on a flagship product, with weekly check-ins and pair programming

Director of Corporate Sponsorship & Finance - **Hack4Impact-UMD** **Apr 2022 - Present**

- Organization in which students build full-stack software solutions for NPOs to make a positive impact
- Elected by peers to seek out funding, manage finances, and maintain relationships with corporate sponsors
- Pioneered the position and sourced our first ever corporate partners, bringing in over $3000 for the organization

Product Manager - **Hack4Impact-UMD** **Dec 2021 - Present**

- Managed a team of 9 students developing a volunteer dashboard to drive up engagement for an NPO partner
- Incorporated agile development techniques such as weekly stand-ups, bi-weekly sprints, and pair programming
- Dealt with client communication, specified product features, and defined project timelines and deliverables

Math Instructor - **Mathnasium** **Oct 2018 – Oct 2020**

- Taught ~25 students weekly, ranging from fundamental arithmetic to complex geometry proofs
- Built rapport with students and adapted to each individual's learning needs by adjusting their tailored lesson plan

Computer Science Tutor - **Freelance Tutoring** **Aug 2019 – Mar 2020**

- Created a curriculum in Java to teach fundamentals (algorithms, data structures, writing functions, recursion, etc.)

TECHNICAL PROJECTS

Heart Attack Prediction - *University of Maryland* **Dec 2022**

- Developed Python tutorial that uses data analysis to determine risk factors and predict heart disease based on health

Word Generator for Wordle - *Personal Project* **Aug 2022**

- Built a Java web app with servlet that accepts Wordle criteria from user and generates list of possible words

Personal Portfolio - *Personal Project* **May 2022**

- Built a website using React to practice front-end development and animation, including hosting and deployment

Recipe Finder - *Technica Hackathon 2021* **Nov 2021**

- Winner of M&T Bank's Best Hack for Influencing Human Behavior at Home
- Created a React app utilizing Spoonacular API to generate weekly meal plans based on user's dietary preferences

Honeypot Experiment - *University of Maryland* **Aug 2021 - Dec 2021**

- Created high-interaction honeypots to determine how delaying ssh login time impacts attacker behavior
- Used Python/Bash scripts to automate container lifecycle, used keyloggers/MITM to monitor attacker behavior

Sudoku App - *Personal Project* **Dec 2021**

- React app that uses Java API to display Sudoku grid and allows user to solve, also has capabilities to solve itself