**Zachary M. Ostrow**

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***Education:***

**University of Maryland College Park**  *College Park, MD*

Bachelor of Science in Computer Science (Cyber Security Concentration) *Expected graduation May 2027*

GPA: 3.9 / 4 | Dean’s List (2x) | Presidential Scholarship

Coursework: Object Oriented Programming I, II (Java), Introduction to Computer Systems (C), Discrete Structures, Introduction to Probability I, II (R, R Studio), Organization of Programming Languages (Ocaml), Algorithms

***Technical Skills:***

Languages & Tools: Python, Java, C, HTML, R, Git, QuickBooks Online (QBO), Ocaml, Microsoft Suite

Technologies: Linux/Unix, API Integration, Security, Hackathons, AI/ML, Cryptography, Google Appsheet,

Certifications: Studying for CompTIA Security+

***Experience:***

**PL CONSULTING & ABC CONSULTING – BOOKKEEPER** *Pikesville, MD | Mar. 2022 - Present*

- Managed day-to-day bookkeeping, invoice, and reconciliation for over 10 small businesses.

- Used QuickBooks Online to track financials across businesses totaling over $5M in value.

- Lead and conduct user-onboarding and update meetings

**FREELANCE TUTOR - COMPUTER SCIENCE & MATH TUTOR** *Pikesville, MD | Mar. 2021 - Present*

- Tutored 15 high school and college students in Computer Science, Calculus, and Physics 1.

- Facilitated workshops and guest-teaching sessions to promote STEM education in local communities.

**DISRUPTIVE INC. - TECHNOLOGY INTERN** *Remote | Mar. 2024 - May 2024*

- Provided technical QA and UX feedback for new conversational AI tools through an extensive 7-page report.

- Developed an AI-driven baseball betting model for deployment with accuracy of 50 - 60%.

***Projects:***

**RECONAI – SOFTWARE PROJECT LEAD - PYTHON** *Pikesville, MD | Current*

- Designing and developing an AI-powered bookkeeping assistant that integrates with QuickBooks via API.

- Leveraging Python and web development to automate transaction categorization and reporting.

- Intended for small business accounting using AI models to provide up to 50% analysis than the QB standard.

**SPACE INVADERS – JAVA** *Pikesville, MD* ***|*** *2024*

- Developed a simulation of the popular game, space invaders utilizing object-oriented programming concepts such as inheritance, sorting algorithms, polymorphism, etc.

**ADVANCEMENTS OF MATHEMATICS & CRYPTOGRAPHY – THESIS** *Pikesville, MD | 2024*

- Explored the history of cryptography and mathematics during WWI & WWII

- Examined origins and functions of cryptographic algorithms such as the RSA, AES, DES, ECC, etc.

- Detailed security concepts required to protect and defend the reader’s internet devices