

# Zachary Kralec

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## EDUCATION

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**St. Mary's College of Maryland** | Saint Mary's City, MD

**Bachelor of Science in Computer Science, Minor in Business** | GPA: 3.49

**Relevant Coursework:** Data Structures, Algorithms, Networks, Acceleration, Theory of Computation, Architecture, Operating Systems, Human Factors

**Awards & Honors:** Dean's List (Fall 2022, Fall 2023, Fall 2024, Spring 2025)

## RELEVANT EXPERIENCE

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**Resource Management Concepts Inc.** | Lexington Park, MD

June 2025 - August 2025

*Technical Operations Intern*

- Learned and applied PowerShell scripting to automate user account management and routine system tasks, enhancing operational efficiency.
- Demonstrated PowerShell scripts to IT team members, enabling streamlined workflows and reduced manual effort.
- Performed system health checks and resolved multiple technical issues to maintain stable Windows server and workstation environments.
- Gained hands-on experience with Windows system administration and network concepts through collaborative team projects.

**LTN Global Communications Inc.** | Columbia, MD

May 2024 - August 2024

*QA Development Intern*

- Automated 5+ video tests using CLI tools, reducing testing time by 50% and improving readability through scripting (Python).
- Collaborated on Gitlab CI/CD pipelines to streamline code deployments and troubleshoot bugs, contributing to 5+ code fixes.
- Identified and resolved 5+ performance vulnerabilities in video encoding/decoding systems, ensuring secure and optimal client-facing outputs.
- Documented 50+ test cases and bugs in TestRail, aligning QA processes with DevOps practices for traceability and scalability.
- Tested 15+ encoders/decoders for security flaws (e.g. latency, data leaks) to mitigate risks in broadcast infrastructure.

**Sinclair Inc.** | Hunt Valley, MD

June 2023 - August 2023

*IT Service Management Intern*

- Developed a centralized Product Training Site prototype in 2 months using Agile methodologies, improving internal workflow efficiency.
- Optimized ServiceNow workflows to complete 10+ IT service enhancements, reducing resolution time for service tickets.
- Prioritized budget allocation for critical technology upgrades, mitigating risks from outdated systems while saving \$300k+ in costs.

## TECHNICAL PROJECTS

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**AI-Powered Mock Interview Simulator (AI Interview Platform)** | JavaScript, HTML, CSS, React, Node.js, Express

Designed and developed a full-stack AI-powered interview simulation platform to help users practice and improve responses to common interview questions.

- Built a dynamic front end using React and styled it with CSS for a clean, responsive interface.
- Developed a Node.js/Express backend to handle API requests and integrate with AI models.
- Implemented speech recognition and text analysis features to provide real-time feedback.
- Enabled customizable question sets and adjustable timing for realistic interview practice.

## SKILLS & INTERESTS

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- **Programming Languages:** Python (Proficient), Java (Proficient), C/C++, JavaScript, HTML, SQL, Swift (Proficient), Bash
- **Frameworks & Libraries:** React, Node.js, Express, Flask, Pandas, NumPy, scikit-learn, TensorFlow, Tailwind, CSS
- **Tools & Technologies:** GitHub, GitLab, Docker, VSCode, Xcode, Postman, Firebase, Jira, Wireshark, AWS, Azure, CLI Tools
- **DevOps & Cloud:** CI/CD Pipelines, AWS CloudFormation, Firebase Auth, Serverless Architecture, Docker Compose
- **Security & Networking:** Incident Response, Cloud Architecture, Network Security Fundamentals, Cybersecurity Fundamentals
- **Technical Interests:** AI/ML, Full-Stack Development, Cloud Engineering, Security Automation, DevSecOps, API Integration