

# 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: 3.54

**Awards & Honors:** Dean's List (4x: 2022-2025)

## RELEVANT EXPERIENCE

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

*QA Development Intern:* May 2024 - August 2024

- Automated CLI based video test runs and wrapped them within Python scripts, cutting test time by ~50% while making the output easier to follow along.
- Helped maintain GitLab CI/CD pipelines and worked through deployment issues when they arose, fixing over 5 issues.
- Found and patched performance weak spots within video encoders and decoders so that client facing outputs remained fast, stable, and secure at all times.
- Logged and organized over 50 test cases and issues in TestRail, keeping QA work followable and more aligned with DevOps workflows.
- Tested over 15 encoders and decoders for security flaws (latency, data leaks) to reduce risks in broadcast infrastructure.

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

*Corporate IT Analyst:* September 2025 - Present

- Built a resumable PDQ inventory audit automation tool to help collect installed software and browser extensions across 100+ endpoints, producing auditable CSV evidence and multiple security flag reports.
- Did hands-on server and virtualization work by disassembling and modifying hardware, configuring systems, and supporting lab environments in Proxmox.
- Improved email security by tuning SpamTitan pattern matching with regex rules, helping to catch more targeted spam and malicious emails before they reached targeted employees.
- Built and supported tooling and automation in order to resolve user access, identity, and system issues.

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

*Information Technology Intern* June 2025 - August 2025

- Learned and applied PowerShell scripts to help automate user account management and many routine system tasks.
- Ran recurring system health checks and fixed over 10 technical issues to keep Windows servers and employee workstations/devices stable.
- Worked with a small clustered server environment of 3 interconnected servers, running Proxmox and Linux, helping improve virtualization, OS deployment, and day to day resource management workflows.

## TECHNICAL PROJECTS

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**AI Interview Platform (Behavioral Interview Simulator)** | JavaScript, HTML, CSS, React, Node.js, OpenAI API

- Built a full-stack AI interview simulator that will generate context aware questions to the user and provides actionable feedback using the OpenAI API (gpt-4o-mini).
- Implemented a React interview flow with session history, feedback panels, loading states, and reliable Q/A logging to support practice sessions and make them trackable.
- Designed backend endpoints to extract the user's target role and track what's already been covered, which helps avoid repetitive questions and keeps the conversation moving with the user.

## SKILLS

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- **Programming:** Python, Java, C/C++, JavaScript, SQL, Swift, Bash
- **Frameworks:** React, Node.js, Express, Flask, TensorFlow, scikit-learn, Pandas, NumPy
- **Dev:** GitHub, GitLab, VSCode, Xcode, Docker, OpenAI API
- **Cloud:** AWS, Azure, Firebase
- **Ops/Sec:** Freshservice, PDQ, Duo, Proxmox, Linux, SpamTitan
- **Focus Areas:** AI/ML, Full-Stack, Cloud Engineering, Security Automation, Gen AI