

Zachary Kralec

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EDUCATION

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)

TECHNICAL PROJECTS

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.

RELEVANT EXPERIENCE

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.

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.

SKILLS

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