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)

RELEVANT EXPERIENCE

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 though 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 Support Analyst: September 2025 - Present
- Built and documented a fault tolerant automation system that reduced multi hour software inventory audits to under an hour, which has features including error recovery, pause/resume, environment calibration, and more.
- 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

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

- **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