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: 3.49
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

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 the original ticket time.
- Prioritized budget allocation for critical technology upgrades, mitigating risks from outdated systems while saving $300k+ in costs.

TECHNICAL PROJECTS

AI Fake News Detector | Python
Built a machine learning model to classify political statements as fake or real.
- Used the LIAR dataset for training and testing.
- Completed a full pipeline in Python using pandas and scikit-learn.
- Preprocessed and vectorized data using TF-IDF
- Trained a logistic regression model which reached about 62% accuracy.
- Started to experiment with TensorFlow for deep learning.
- Check out more projects at zkralec.dev.

SKILLS & INTERESTS

- **Programming Languages:** Python (Proficient), Java (Proficient), C/C++, JavaScript, SQL, Swift (Proficient), Bash
- **Tools and Technologies:** GitLab, GitHub, Docker, AWS, Azure, CLI tools, APIs, Pandas, NumPy, scikit-learn, TensorFlow, Jira, Wireshark, Agile/Scrum, VSCode, Xcode
- **Security & Cloud:** Firebase Auth, Incident Response, Cloud Architecture, Basic Network Security, Cybersecurity Fundamentals
- **Technical Interests:** AI/ML , Software Development, DevSecOps, Security Automation, API integration, Cloud Computing