

Andrew Zick

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Work Experience

VMWare + Carbon Black

Seattle, WA / Remote

Senior Member of Technical Staff, *January 2022 - Present*

- Created the 2022 roadmap for my malware detection team including new detection coverage, custom success metrics, updating to MITRE ATT&CK v10, and a multi-year migration plan to our successor project.
- Completed SANS course 504: Hacker Tools, Techniques, and Incident Handling and passed the [GCIH exam](#), as part of working towards increasing my knowledge of computer security internals.
- Owned and implemented updating our detections to [MITRE ATT&CK v10](#), which included researching, testing, and deploying the new TTP changes, along with customer communications and documentation.

Software Engineer / Member of Technical Staff, *June 2017 - January 2022*

- Started my career working on low latency Flask APIs for services managing malware reputation requests.
- Researched and developed an internal tool for safer canary deployments in AWS Lambda via traffic shifting.
- Handpicked to move to a newly formed malware detection team focused on revamping a neglected project.
- Rewrote the project's testing framework to be "true" unit tests, removing all internal monolith dependencies.
- Improved the project's CI/CD pipeline runtime by 90% by making tests thread-safe and eliminating Jenkins.
- Developed relationships directly with customer support staff to efficiently triage, validate, and fix issues.
- Recognized via internal award for my work as a Subject Matter Expert on multiple internal incidents.

College of Engineering, University of Michigan

Ann Arbor, MI

Instructional Aide in Computer Security, *January 2016 - April 2017*

- Part of the staff for Intro to Computer Security, an advanced Computer Science course at Michigan.
- Taught a weekly lab, held office hours for in-person assistance, and contributed to an online class forum.

Skills

- Written and deployed code in Java and Python, dabbled in Go.
- Experienced with bash/zsh, git, grep, and other command line tools.
- Comfortable using Gitlab, especially its CI/CD to testing, building, and deploying projects.
- Maintained team services built with AWS S3, SQS, Kinesis, Lambda, ECS, and DynamoDb.
- Spent my free time messing around with other AWS services e.g. Load Balancers (ALB+NLB), Security Groups, etc. for my [personal website](#) which runs on [Caddy](#) with Docker on ECS via Terraform.

Education

University of Michigan, Ann Arbor

B.S.E. in Computer Science, minor in Women's Studies, graduated Spring 2017