

Evan Kivolowitz

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Work Experience

Software Engineer 2 - Give Good Deeds

August 2020 - January 2021

- Solely designed and implemented smartlink and app sharing related features with attribution.
- Developed from scratch the testing suite (pytest, fixtures, mocker).
- Developed Flask backend design patterns to loosely couple logical business logic from individual endpoints.

Cloud Engineer 1 - American Family Insurance

Winter 2019 - August 2020

- Responsible for maintaining and developing new capabilities in the enterprise AWS platform.
- Key Contributions include: reducing account creation process time from 1.5 interactive days to 3.5 hours hours of automation, generating a POC data reporting model to reduce overhead to cloud engineers.

Founder and Developer – ERK LABS LLC

Summer 2019 – Present

- Produced, hosted, and edited The Chicken Tender Report, a podcast about chicken tenders.
- Actively working on an inventory management system for bars to manage premium bottle service memberships. Leverages Python, Flask, DigitalOcean and NGINX.
- Covid Counter - a synchronized capacity counter for private businesses to ensure coherence with local authorities capacity guidelines. Leverages AWS and Android Studio.

Researcher – National Science Foundation Cybersecurity Center of Excellence

Winter 2019 – Fall 2019

- Conducted a vulnerability assessment on Singularity, a containerization platform. Final report available: <https://bit.ly/3kvsosn>.

Software Engineering Intern – Grammatech

Summer 2018

- Developed pipeline to discover and build C/C++ projects using Travis-CI in Docker containers. Built with Python.
- Integrated binary analysis and rewriting tools into local Travis-CI containers to run unit tests.

Education

University of Wisconsin: Madison – B.S. Computer Science – December 2019

Vulnerabilities Discovered - All Reported

Summer 2019 - Present

- Singularity - Discovered an unintended consequence allowing a root user within a container the ability to escalate privilege on the underlying host.
- Toppers Pizza - Discovered a vulnerability that disclosed PII (including name, address, and phone number) of any customer who had ordered a pizza online.
- Notion - Discovered an overexposure of information allowing an unauthenticated user the ability to collect PII on any publicly posted anonymous article.
- Subway - Discovered a vulnerability in their survey workflow allowing for unlimited free cookies, chips, or drink.

Notable Personal Projects

- Fuzzyman (Jan 2021) - An OpenApi Fuzzer with Postman integrations.
- MySpinClass (Nov 2020) - A FOS alternative to Peloton that connects to bikes over BLE.
- DREX (Jul 2017) - A QTUM based crowdfunding platform for solar cell deployment.