Evan Lin

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Education

University of Illinois Urbana-Champaign   Expected May 2026
Bachelor of Science in Computer Science, Certificate in Cybersecurity (GPA: 4.00 / 4.00)   *Champaign, Illinois*
Relevant Coursework: Computer Systems Engineering, Database Systems, Algorithms, Data Structures, Software Design, Cryptography, Technical and Organizational Concepts and Practices in Cybersecurity, Cloud Security Essentials

Technical Skills

Languages: C, C++, Java, Python, JavaScript, Typecript, Assembly (MIPS, x86, RISC-V), SQL
Technologies: React.js, Tailwind, Postman, Node.js, Express.js, AWS, Git, Ghidra, Wireshark, Kali Linux, Axios, GDB, qemu
Certifications: GIAC Foundational Cybersecurity Technologies (GFACT); GIAC Cloud Security Essentials (GCLD)

Experience

Information Trust Institute   Nov 2023 – Present
Cybersecurity Researcher   *Champaign, Illinois*
- Developing Memorizer, a tool used to monitor all memory allocations, accesses, and frees in the Linux kernel.
- Enhanced Memorizer to also track function calls and stack frames for more comprehensive tests.
- Implemented process-specific memory tracking, reducing noise by over 92% and allowing for more granular tests.
- Investigated uses of Memorizer to reduce attack surfaces within Internet of Things devices.
- Utilized gdb to debug changes to kernel code and fix vulnerabilities, increasing speed by over 300%.
- Developed shell scripts to interact with a database to streamline workflow between experimenters and analysts.
- Invited to BsidesChicago to help teach methods to scan and exploit systems to 50+ participants in a guided CTF.
- Delivered presentation on kernel-level security mechanisms with an emphasis on SMAP, SMEP, and UACCESS.

Hack4Impact   Sep 2023 – Present
Software Engineer   *Champaign, Illinois*
- Collaborated with OpenAQ to build a AQI learning platform with Solid.js for a community of over 1500 members.
- Partnered with EthicsNet, facilitating the annotation of datasets to develop ethical and prosocial AI models.
- Created and tested API endpoints with Postman to ensure secure annotation data retrieval.
- Leveraged MongoDB, Express.js, and Node.js to provide functionality for the EthicsNet admin dashboard.
- Utilized React.js and Tailwind to build components to provide a clean annotation user experience.

Association for Computing Machinery — University of Illinois Urbana Champaign   Sep 2023 – Present
Infrastructure Team, Admin API Team   *Champaign, Illinois*
- Leveraging AWS Lambda, AWS IAM, and AWS DynamoDB to enforce access controls across all ACM platforms.
- Developed platform to manage permissions for ACM services utilizing a custom Python CRUD API.
- Designed frontend using React, Tailwind, and NextUI to facilitate administration over user roles and permissions.

Oakton College   May 2021 – July 2022
American Mathematics Competition Preparation Instructor   *Des Plaines, Illinois*
- Created 4 unique curricula and crafted new AMC-style questions for 40 assignments covering competition topics.
- Independently taught over 50 students, led several courses and office hours, and refined lessons from feedback.

Projects

Lumberjack | *Best Developer Tool at HackIllinois 2024* | *React, Axios, Python, TypeScript, Docker*
- Developed tool to monitor log files generated by docker containers as well as CPU and RAM usage.
- Leveraged an unsupervised clustering model to check for outliers to identify anomalies.

Archery Tracker App | *React Native, Javascript*
- Created lightweight arrow tracking tool to optimize practice sessions, decreasing downtime between rounds.
- Utilized application for practices leading to qualifying for the world archery tournament.

Honors and Awards

3rd Place Team Captain at TracerFIRE: Incidence response and forensics CTF | *Sandia National Labs* | *Mar 2024*
National Cyber Scholar with Honors: Semester-long CTF | *National Cyber Scholarship Foundation* | *Oct 2023, Jan 2024*
2 time AIME Qualifier: Top 5% of AMC 12 | *Mathematical Association of America* | *2021-2022, 2022-2023*