

Khael Kugler

+1 (512) 840-8424 | khaelkugler@gmail.com | Austin, TX

<https://github.com/KhaelK138> | <https://www.linkedin.com/in/khael-kugler>

EDUCATION

The University of Texas at Austin, Austin, TX

August 2021 - May 2024

Bachelor of Science in Computer Science, Certificate in Applied Statistical Modeling

- **Current GPA:** 3.70
- **Relevant Coursework:** Ethical Hacking, Principles of Machine Learning, Artificial Intelligence, Operating Systems, Computer Architecture, Data Structures, Algorithms, Modern Web Apps

EXPERIENCE

NCC Group, Austin, TX

May 2023 - August 2023

Cybersecurity Consultant Intern

- Conducted in-depth web app and network penetration tests on several enterprise clients.
 - Discovered and assessed various security vulnerabilities, including: RCE through file upload bypass, reflected and stored XSS, SQL injection, CSRF with login info, and weaknesses in session management.
 - Applied OWASP and NIST cybersecurity frameworks while conducting testing and reporting.
- Created and presented reports to clients describing the risk, impact, likelihood, and recommendation for each vulnerability, ensuring the client understood the proper steps for remediation.

PROJECTS

- **Detecting Obfuscated Malware with Machine Learning:** Implemented a custom PyTorch neural network and multiple Scikit-learn models trained on over 58,000 system memory dumps to:
 - Determine whether or not a memory dump indicated malicious activity with over 99% accuracy.
 - Differentiate between the various types of malware affecting the system, if present.
- **UT Bug Bounty:** Identified numerous security vulnerabilities and aided remediation efforts within UT's online infrastructure through their bug bounty program.
- **Offensive Tooling:** Wrote a mock ransomware in Java which could encrypt and decrypt a system's files in order to simulate techniques of modern threat actors and mitigate an attack of that nature.

LEADERSHIP

UT Information & Systems Security Society, Austin, TX

August 2021 - Present

Vice President, Engineering Officer

- Prepared and presented security talks on web application hacking and machine learning to over 60 members.
- Led meetings, organized events with members and sponsors, and managed finances of the organization.
- Designed cybersecurity challenges for CTF competitions, including "UTCTF" with over 950 participants.

HASH Association of Student Hackers, Austin, TX

September 2023 - Present

CPTC9 Finalist

- Represented UT at the regional Collegiate Penetration Testing Competition as one of 6 members.
- Selected as one of 15 finalist teams to compete at the global finals competition in January of 2024.

SKILLS

- **Languages:** Proficient in Python, C, and Java; familiar with x86 Assembly, PHP, HTML, SQL, and JavaScript.
- **Tools:** Experienced with Burp Suite, Kali Linux, Metasploit, Ghidra, gdb, git, VS Code, and Microsoft 365.
- **Foreign Language:** Fluent in French