Thomas Quig

(847) 533-0559 | trquig1@gmail.com | **GitHub:** Thomas-Quig | **Site:** quig.dev

EDUCATION

University of Illinois   Urbana-Champaign, IL

Masters of Science in Computer Science (3.66/4.0)   Expected Dec 2022
Bachelors of Science in Computer Science (3.68/4.0)   Dec 2021

Relevant courses: Law and Policy in CS (CS498-RC), IOT Sec & Priv (CS598-CG), Social Computing (CS598-SC), Inclusivity In CyberSec (CS598), Advanced Computer Security (CS563), Comms & Wireless Networking (CS438/439)
Dean's Lst: Fall 2021, Spring 2022

EXPERIENCE

Sandia National Laboratory - Center for Cyber Defenders   Livermore, CA

Graduate Summer Intern - TITANS Summer Program   Jun 2022 – Present
- Designed and implemented a Deep Machine Learning model to detect maliciousness in internet packets
- Performed research on the ISOT open-source dataset, developed a parameterizable packet preprocessing tool
- Second project (network security simulation) currently under R&A (review and approval for info release)

Plante Moran - International Business Consultancy   Urbana-Champaign, IL

Consultant Intern - Network Security Assessment   Jun 2021 – Jan 2022
- Performed various network security assessment services including external and internal penetration testing, application security analysis, cloud platform security assessments, and webapp security testing
- Developed several internal and external software tools, including ld3p, and a report automation tool that saves Network Security team members hours of report construction every week

RTM Engineering - Engineering Consultancy   Schaumburg, IL

Intern - Information Security and IT   Jun 2020 – Jun 2021
- Completed a full penetration test on the RTM national network, successfully documented 25+ critical vulnerabilities to network integrity. Improved RTM Cybersecurity policy at a company-wide level
- Supported RTM employees to swiftly resolve any IT issues worked on RTM devices and servers
- Deployed an Active Directory License scanning program in python, saving RTM $7,500 a year

ACTIVITIES

University of Illinois - Computer Science Department   Urbana-Champaign, IL

Graduate Teachers Assistant - CS210/211 (Ethics)   Jan 2022 – Present
- Teach 170 students fundamentals of ethics and professionalism in computing. Lead discussion sessions, answer lecture questions, hold hybrid office hours to individually assist students, update assignment content
- Completely redeveloped the Computer Security discussion section to better engage students

ACM SIGPwny - UIUC Computer Security Club   Urbana-Champaign, IL

President (2020-Present), Officer (2019-2020), Member (2018-2019)   Sep 2018 – Present
- Grew organization from 15 to 150 average weekly attendees, total membership up 500. Lead a team of 7 club admins, facilitate weekly meetings with challenges, manage club funds, internal ESXi server, club promotion
- Organized and successfully executed four (2019-2022 expected) large-scale in-person (100+ participants) recruitment events, as well an online computer security tournament UIUCTF 2020-2022 (1800 participants)

SKILLS

Leadership: Project management, team management, public speaking, mentoring, technical teaching
Languages: C, Python, Java, Bash, C++, C#, R, MIPS, x86, ReactJS, SQLAlchemy, HTML, Verilog
Platforms: Docker, Linux, Windows (AD security/support), macOS, iOS, Unity3D, Ghidra, ESXi, AWS

AWARDS

- **2nd** / 17 teams: Austin Cyber 9/12 Strategy Challenge, run by Atlantic Council Cyber Statecraft
    - Simulated government response to Cyber Attack scenario, policy crafting, presentations
    - **Semi-Finalist** in the Cyber 9/12 National Finals in Washington DC
- **1st** / 50+ teams: Cyphercon 5.3 - computer security conference tournament (2022)
- **2nd** / 800+ teams: CSAW 2021 (qual/final) with SIGPwny, qualified yearly since 2019