

Thomas Quig

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EDUCATION

University of Illinois

Urbana-Champaign, IL

Bachelors of Science in Computer Science

Expected FA 2021

GPA: 3.5/4.0 (3.57 Technical)

Relevant courses: Computer Security (CS461), Security 2 (CS463), Advanced Security (CS563), Communications Networking (CS438), Wireless Networking (CS439), Systems Programming (CS241), Virtual Reality (CS498-VR), Algorithms (CS374), Data Structures (CS225), Architecture (CS233), Independent Research (CS397, ECE297)

EXPERIENCE

Plante Moran - International Business Consultancy

Urbana-Champaign, IL

Consultant Intern - Network Security Assessment

Jun 2020 – Present

- Perform 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 Id3p, and a report automation tool that saves Network Security team members hours of report construction every week

Mobius Research Group - Professor Robin Kravets

Urbana-Champaign, IL

Researcher - Wireless Network Security

Dec 2020 – Present

- Researching masking Wi-Fi discovery and communication via MAC address shuffling
- Responsibilities include, access point library analysis, development, and testing

RTM Engineering - National Engineering Consulting

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
- Support RTM employees to swiftly resolve any IT issues worked on RTM devices and servers
- Developed an Active Directory License scanning program in python, saving RTM \$7,500 a year

ACTIVITIES

ACM SIGPwny - UIUC Computer Security Club

Urbana-Champaign, IL

President (2021-Present), Officer (2019-2020), Member (2018-2019)

Sep 2018 – Present

- President of the University of Illinois computer security interest group. Responsibilities include facilitation of weekly meetings, managing club funds, internal ESXi server, club promotion, and developing challenges
- Organized and successfully executed several large-scale (100+ participants) recruitment events in the fall of 2019 and 2020, as well as UIUCTF 2020/2021: a computer security tournament with a turnout of 1900 users

PROJECTS

naev ([naev.page](#)) — Package Manager Feature Set Abstraction

Jan 2021 – Present

- Developed a feature set abstraction for modern day package managers to enable secure nonlinear versioning

Ilss ([ilss.page](#)) — Wireless MAC Address Shuffling Application and Paper

Sep 2020 – Present

- Designed a Moving Target Defense (MTD) tool designed to work in wireless ad-hoc environments

SKILLS

Leadership: Project management, team management, public speaking, mentoring, teaching

Languages: C, Python, Java, Bash, C++, C#, R, MIPS, x86, ReactJS, SQLAlchemy, HTML, Verilog (etc.)

Platforms: Docker, Linux, Windows (AD security/support), macOS, iOS, Unity3D, Ghidra, ESXi, AWS

AWARDS

- **6th** / 100+ teams: Cyphercon 4 - computer security conference's tournament (2019)
- **1st** / 150+ participants: SIGPwny annual internal CTF (2018)
- **Dean's List:** Spring 2021