

John “Jack” Hagen

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Education

University of Wisconsin – Eau Claire | Eau Claire, WI

09/2023 – Anticipated Graduation: 05/2027

Bachelors of Science - Computer Science / Political Science

Certificate – Chinese || GPA 3.4/4.0

Waukesha County Technical College | Waukesha, WI

8/20/2022 – 5/20/2023

Relevant coursework: Cisco Switching and Routing, Linux Essentials, Enterprise Clients, Security 1, Bash Shell Scripting

Experience

Undergraduate Researcher | UW Eau Claire

9/10/2023 – Present || 10 hrs/week

Worked on and still work on multiple research projects including, but not limited to, machine learning detection of network intrusions, breaking current phishing systems methodology with generative AI, and tracking a real-life moving target using Bluetooth Low Energy emissions from everyday devices.

System Administrator | UW Eau Claire HPC Center

9/10/2023 – Present || 15 hrs/week

Part of the three-person team at the UWEC High Performance Computing Center which manages our two Linux supercomputing clusters. Assist the several hundred students and faculty researchers which use the clusters, ensure that all of the many parts of the clusters are up-to-date, functional, and usable. In charge of security related management of the clusters

Student Intern Lead | Oconomowoc Area School District

06/1/2022-09/01/2022 | 07/01/2023 – 08/25/2023 || 30 hrs/week

Lead a team of other students in preparing the school district's technology for the school year, as well as helped IT department engineers configure Cisco switches and other networking equipment.

Volunteer Attendant | Oconomowoc Public Library

6/10/ - 8/01 | 2017 – 2022 || 1 hr/week

Managed a booth for instructing summer reading program participants and distributing prizes.

Volunteer Special Olympics Bocce Ball Coach | YMCA

07/1/2022-08/01/2022 | 07/01/2023 – 08/02/2023 || 1.5 hrs/week

Assisted and taught disabled players to practice and compete in the Special Olympics.

Research Projects

IoT ML Network Traffic Classification

Use new machine learning algorithms with established network traffic datasets to better classify network traffic as benign or malicious.

= Python, Machine Learning, Data Science

Generative AI Phishing Detection

Building a dataset of generative AI written phishing messages which defeat current phishing detection methods in order to provide data on how to improve those systems, specifically against the rise of generative AI.

= AI, LLMs, HPC, Bash, Linux, Python, NLP

Bluetooth Triangulation Tracking Network

Creating a tracking grid of edge devices which uses Bluetooth Low Energy triangulation of a target's personal devices to track them in order to investigate potential mitigation.

= Bluetooth LE, Embedded Systems, Linux, Python

Skills

Professional Proficiency

- Linux
- Python
- Bash
- High Performance Computing

Working Proficiency

- Git
- Machine Learning
- HTML/CSS
- Javascript
- Java
- Docker / Podman
- Embedded Computing
- Cyber Intelligence
- Network Security
- Data Science

Awards + Certifications

CompTIA Security+ - 10/02/2023

Recorded Future Intelligence Fundamentals - 04/2024

IT Specialist – Cybersecurity - 9/28/2022

Cisco Certified Support Technician Cybersecurity - 3/19/2023

Future Business Leaders of America Coding and Programming Competition State Winner – 3/18/2023

Getting Started with Threat Intelligence and Hunting (IBM)- 12/2023

Organizations

University of Wisconsin – Eau Claire Honors Program

President - UWEC Model United Nations

President – UWEC Cybersecurity Club

President - Students Association of Computing Machinery

American International Ki Development and Philosophical Society – Wadokai Aikido Martial Arts

Blugold Marching Band