

# Thomas Peter Harris

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## PROFESSIONAL SUMMARY

Jr. Full Stack Software Engineer with 2.5 years of software development experience. Proficient in Java, Python, and Web Development, bringing innovative approaches to enhance system sustainability and user engagement. Demonstrates a strong commitment to improving software reliability and user experience, with aspirations to lead in cutting-edge software development.

## EXPERIENCE

**Life Cycle Engineering | Java (Swing, AssertJ), Apache Velocity, Wireshark, LUA, C++, ROSE, Batch, Ada, SQL** Philadelphia, PA  
*Jr. Full Stack Software Engineer* June 2023 - Present

- Developed Platform Independent and Engineering Control Systems for naval ships, enhancing sustainability.
- Tested and implemented Human Machine Interface features and bug fixes using Swing, AssertJ, ensuring integrator growth.
- Enhanced Wireshark protocol dissector with Apache Velocity, improving Programmable Logic Controller network insights.
- Ensured reliable Modbus bitwise communications in a lab-based environment, maintaining naval ship signal integrity.
- Utilized page builders and ROSE to modify Human Machine Interface pages, improving view of naval ship controls.
- Managed Microsoft Access SQL databases for control systems, supporting naval ship system enhancements.

**A.I. Whoo | Python (Pandas, FastAPI, Behave), Javascript, HTML** Newark, DE  
*Software Engineer & Team Member (Senior Design)* August 2022 – May 2023

- Developed redeemable points program for state parks through QR-codes, enhancing user engagement and local support.
- Created backend solutions with AJAX and FastAPI, improving user-server communications and benefiting local sponsors.
- Streamlined Teaching Assistant systems at the University of Delaware Department of Computer and Information Sciences, optimizing onboarding, timekeeping, and payroll processes.
- Enhanced front-end with data tables and CSV imports, boosting Teaching Assistant management reliability.

**University of Delaware Department of Computer and Information Sciences | Python** Newark, DE  
*Teaching Assistant for CISC 106 - General Computer Science for Engineers* August 2022 – December 2022

- Guided freshman engineering students in Python basics, enhancing teamwork and problem-solving skills.
- Facilitated in-class activities, boosting programming proficiency among students.
- Developed assignments to strengthen students' understanding of core programming concepts.

## SKILLS

**Programming & Web:** Python, C/C++, Java, Batch, Bash, ROSE, HTML, CSS, Javascript, Git, Firebase, Jenkins, NodeJS, Jira

**Software:** Wireshark, Visual Studio, Eclipse, VMware, BurpSuite, Postman, Apache, Metasploit, MS Office

**Operating Systems:** Windows, iOS, Linux, Unix, CentOS, Kali

**Certifications:** CompTIA Security+ (March 2024)

## PROJECTS

**Firebase Twitter (School Project) | HTML, CSS, Javascript, Firebase** Newark, DE  
*Programmer* September 2022 – November 2022

- Built a condensed version of Twitter while implementing a user-friendly environment with enhanced security measures.

**Minecraft Server (Self-Study) | Java Runtime Environment, Batch, Network Management** Remote  
*Server Administrator, Assembler* January 2013 – Present

- Utilized basic networking and scripting to host Java servers, creating safe, reliable, and entertaining gaming environments for users worldwide.

## EDUCATION

**University of Delaware** Newark, DE  
*Bachelor of Science, Computer Science with Cybersecurity Concentration* May 2023  
*Minor in Applied Music (Trombone)*

## EXTRACURRICULAR ACHIEVEMENTS

**Boy Scouts of America Troop 74** Clifton, NJ  
*Eagle Scout* September 2019