

Thomas Peter Harris

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PROFESSIONAL SUMMARY

Jr. Full Stack Software Engineer with a Bachelor's in Computer Science and 2½ years of professional software development experience. Proficient in Java, Python, C/C++, Web Development, and Computer Networks, 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. Certified in Security+ by CompTIA.

EXPERIENCE

Life Cycle Engineering

Philadelphia, PA

Jr. Full Stack Software Engineer

June 2023 - Present

- Configure Navy ship Control Systems ensuring reliability and user-friendliness using Java (Swing and AssertJ) and C++.
- Developed user-friendly HMI interfaces, streamlining interactions for Navy sailors and reducing training time significantly.
- Maintained comprehensive signal and device databases through SQL and CSV, ensuring accuracy in Control System backend functionality and supporting seamless operations.
- Conducted thorough testing of Control System signal communications, ensuring robust functionality and reliability for shipboard controls through usage of Modbus, Ada, and Remote Terminal Units.
- Work within Agile and Waterfall frameworks, fostering team communication and ensuring timely project delivery through effective use of Jira and Git.
- Analyze network data for insights, improving communication efficiency with Wireshark and LUA.
- Maintain Rockwell PLCs in RSLogix along with related devices and configurations, ensuring accurate information is transmitted to and from Control Systems.
- Configure logistics of Control System devices and signals through ROSE, ensuring proper data processing.
- Developed templates in Apache Velocity to ensure effective operations in multi-purpose object references.

A.I. Whoo

Newark, DE

Software Engineer & Team Member (Capstone)

August 2022 - May 2023

- Developed QR-based points program for parks, boosting engagement and local support.
- Developed backend solutions with Python (FastAPI) and JavaScript (AJAX), enhancing server communication efficiency.
- Optimized Teaching Assistant onboarding and payroll, improving team efficiency and reducing administrative tasks.
- Enhanced frontend with data tables and CSV imports through Python (Pandas), and JavaScript, increasing user satisfaction.
- Used Agile methodologies to ensure project consistency and timely milestone delivery through use of Git, Asana, and Discord.

PROJECTS

Project CSPAN

Remote

Programmer

April 2025 - Present

- 2-D side scroller adventure game developed in C# and Unity with a focus on user-friendly controls and creative level design.

Firestore Twitter

Newark, DE

Programmer

September 2022 – November 2022

- Built condensed version of Twitter in HTML/CSS/Javascript, providing a user-friendly environment with enhanced security.

EDUCATION

University of Delaware

Newark, DE

Bachelor of Science, Computer Science with Cybersecurity Concentration

May 2023

Minor in Applied Music (Trombone)

Boy Scouts of America Troop 74

Clifton, NJ

Eagle Scout

September 2019

SKILLS

Languages: Java, Python, HTML, CSS, Javascript, C/C++, C#, Batch, Bash, Apache Velocity, Ada, LUA, SQL

Software: Git, Wireshark, VMware, VirtualBox, Visual Studio, Eclipse, Postman, Ubuntu, Azure

Systems: Windows, iOS, Linux (Red Hat, CentOS, Kali), Programmable Logic Controller (PLC), Computer Networking