PATRICK WALKER

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Education

The Pennsylvania State University   **Aug. 2019 – December 2023**
Bachelor of Science in Enterprise Technology Integration   *State College, Pennsylvania*
- GPA 3.37/4.00

Experience

Waterdog Computer Works   **January 2022 - Present**
IT Engineer Intern   *Devon, Pennsylvania*
- Leveraged Robotic Process Automation and Program Management to help me manage security software and system integrity for clients
- Learned PowerShell scripting and wrote scripts to automate security upgrades and maintenance for Waterdog's clients.
- Negotiated optimal selling prices for malware protection software.

2020 Lockheed Martin Team Design Challenge   **September 2020 – November 2020**
Product Manager   *State College, Pennsylvania*
- Managed an agile development team with various skills in Verilog, web development, and firmware coding.
- Prepared a full work calendar designed to optimize the team's collaborative workflow that utilized each team member's strengths in different technologies and a cycle of sprints and meetups.
- Designed software that integrates an ESP32 microcontroller to host a browser based connect four game played with a theoretical physical controller.
- Developed code in Verilog and Java.
- Communicated results through a multimedia presentation to a panel of judges.

Projects

Raspbery Pi Hosted React Website | *Javascript, React, JSX, HTML, CSS*   **January 2022**
- http://southuniform.asuscomm.com
- Established a self-hosted Nginx web-server to run on a headless raspberry pi.
- Developed a react task-tracker frontend app.
- Learning the MERN development stack in order to implement a full-stack web app with MongoDB or SQL, Express, React, and Node

Relevant Coursework

Data Structures and Algorithms
- Analyzed algorithmic runtime complexity of famous algorithms.
- Solved dynamic programming scenarios.
- Reduced algorithmic runtime complexities.

Discrete Math and Computational Logic
- Utilized computational logic to evaluate how algorithms can analyze real world scenarios.

Extracurricular

Ethics Bowl   **September 2016 – June 2019**
Team Captain and Logistics Manager   *Radnor, Pennsylvania*
- Analyzed ethical dilemmas with a small team and advocated for ethical solutions.
- Achieved second place in the National High School Ethics Bowl League Invitational Tournament at the Depauw University Prindle Institute of Ethics in 2018.
- Succeeded in earning fourth place at the Delaware Valley Regional High School Ethics Bowl Competition in 2018.

Technical Skills and Accolades

Languages: Python, Javascript, Java, C, Verilog HDL, Scheme, HTML, CSS
Developer Tools: VS Code, Linux
Technologies/Frameworks: React, GitHub, Microsoft Office
Quoted on: *The Vergecast*, Episode: 23 July, 2021, at 16 minutes and 51 seconds