

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

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.

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

Raspberry Pi Hosted React Website | Javascript, React, JSX, HTML

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

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, Typescript, 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