

PATRICK WALKER

402 Barbara Lane, Bryn Mawr, Pennsylvania 19010

☎ 484-432-3931 ✉ patrick.walker.2023@gmail.com in [linkedin.com/in/patrickwalker5227](https://www.linkedin.com/in/patrickwalker5227) GitHub github.com/SouthUniform7

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 via Python and Program Management to help me manage security software and system integrity for clients
- Programmed Python Web Automation scripts with the Selenium library to deploy a rapid hotfix for a firewall program.
- 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

Fig Log - Full Stack Website | *JavaScript, React, SQLite, Express, Node, NGINX, HTML, CSS*

March 2022

- <http://143.198.122.156>
- Developed a Full Stack JavaScript Application to catalog LEGO Minifigures and find their eBay prices.
- Utilized a React front end, a lightweight SQLite database, and an Express back end.
- Built a web scraper that scrapes eBay for Minifig prices using data taken from front end user queries.
- Employed a NGINX reverse-proxy server to route a connection between the SQLite database and the front end.

Raspberry Pi Hosted Static React Website | *JavaScript, React, JSX, HTML, CSS*

January 2022

- <http://southuniform.asuscomm.com>
- Established a self-hosted Nginx web-server to serve static React files on a headless raspberry pi.
- Implemented a react task-tracker front end app.

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: Selenium, React, Linux

Technologies/Frameworks: React, GitHub, Microsoft Office

Quoted on: *The Vergecast*, Episode: 23 July, 2021, at 16 minutes and 51 seconds