Adam Tassara Powell

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Education

University of Massachusetts Amherst | B.S. in Computer Science   **Graduated May 2022**

Technical Skills

Languages   **Frameworks**
Python · Javascript · HTML · CSS · Java · SQL · C · PHP   React · Flask · Node.js
Tooling / Architecture
Linux · Docker · Git · Bash · REST APIs

Internships

Raptor Maps | Growth Team Software Engineering Intern   **May 2021 - August 2021**
- Worked with experienced developers to create and refine new products for the solar industry.
- Refactored local development environments using Docker and docker-compose.
- Developed a full-stack dashboard using Python, React, and Postgres for the release of a new product.
- Worked with other developers to plan future backend patterns to be used throughout the company.

Verity Software House | Front End Development Intern   **August 2019 - September 2019**
- Independently rewrote the legacy front end of a classic ASP site
- Decreased load time by 30% while adding mobile support and modernizing the visual design.

Projects

Animation Ring | Developer   **January 2022 - March 2022**
- Worked with a client to support the launch of a Kickstarter project.
- Designed and developed a React and Three.js application to create and print barrier-grid style animations for fidget rings.

Onehourgamejam.com | Contributor   **March 2019 - April 2019**
- Revamped the theme voting system and administrative functions of an open-source PHP game jam website.
- Independently discovered a vulnerability on the site which allowed attackers to operate administrative functions from malicious webpages and fixed the issue by modifying sitewide form generation code.

BA-T BASIC | Developer   **December 2017 - April 2018**
- Built a BASIC Development Environment in Javascript that allows users to create games in the browser, with a custom text editor, sprite editor, and runtime.
- Designed a single pass compiler to convert BASIC code into instructions for a stack based virtual machine.

Hackathons

Surchengine.net | HackUMass 2019   **October 2019**
- Worked for 36 hours with a partner to build a search engine targeting phishing, scam, and malware websites.
- Used Vue.js, Node, SQL, and headless Chrome to index and take screenshots of websites from common blocklists.

Mothmobile | Best Robotics Hack, HackUMass 2018   **October 2018**
- Worked with a small team over 36 hours to build a wheeled Arduino-based robot which mimicked a moth's response to light.
- Won Best Robotics Hack at HackUMass 2018.

Leadership

Minuteman High School Advisory Board | Student / Alumni Member   **September 2017 - Present**
- Worked as the student / alumni member in a team with industry professionals, higher education representatives, and high school teachers.
- Advised the Minuteman High School Programming and Web Development program on changes to the curriculum.

Other Competitions

SkillsUSA Web Design and Development | Two time national bronze medalist.   **2017 - 2018**