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**EDUCATION**

**New Albany, IN Indiana University Southeast Spring 2015-Fall 2020**

* B.S. in Computer Science in Mathematics
* Coursework: Software Engineering; Programming Languages; Computer Structures; Data Structures; Data Science; Analysis of Algorithms; Database Concepts; Artificial Intelligence; Operating Systems; Web enterprise software

**LANGUAGES, TECHNOLOGIES, AND SKILLS**

* C#; C; C++; Python; JavaScript; HTML5/CSS; PHP; Java;
* .NET Core MVC; Entity Framework; React; Redux; Git; Typescript; Angular; Laravel; Travis CI; Git deployment; Docker
* Linux; Nginx; Apache; IIS; cPanel WHM; Azure; vSphere; Raspberry Pi; Arduino

**WORK EXPERIENCE**

**Full Stack Developer Louisville Geek March 2018-Present**

* Work with Clients and peers to plan, develop, and support software applications.
* Other responsibilities include:
* Maintain internal webservers and vms
* Manage client hosting environments
* Setting up Continuous Integration and Deployment for software development
* Project management and direct client communication
* Mentor and teach other team members

**Computer Science Tutor Indiana University Southeast Fall 2017-Spring 2018**

* Assist Students in their course work by providing insight into the problem or assignment.
* Work closely with professors to ensure students understand material and seek appropriate assistance.

**ADDITIONAL EXPERIENCE**

**Projects**

**Github.com/jb1361**

* **Memelon** (2021). Bot that watches Elon musk’s Twitter and buys DogeCoin whenever he tweets about Doge. Afterwards it sells once a set percentage increase is met. A Convolutional Neural Network is used to detect if the image contains a Doge. Python; Tensorflow; Tweepy
* **CsgoHoldem** (2020-present). Themed Texas Holdem using websockets behind a Redux middleware. React; .Net 5; Redux
* **UptimeRmx** (2019-2021). Remote monitoring software for PLC’s that provide machine information through custom protocol. The protocol spec allows the system to monitor all information from any machine through a robust configuration. .NET Core; React
* **Isco Garage** (2020). Web app that provides a solution for the company to add, assign, and manage troubleshooting videos for Industrial machines. React; .Net Core; Redux
* **Papercone Attendance Manager** (2020). Web app that allows HR managers to enter attendance info which is then put Into a shared calendar with the Microsoft Graph Api. .NET Core; React; Redux
* **RaspSat** (2019). A Cubesat project powered by Raspberry Pi’s; Python
* **Magna** (2019). Application that allows Pharmacies to purchase pharmaceuticals online. Angular; Laravel

**Research**

* **Swarm AI** (2021-present). My main role in this collaborative research project is to develop the hardware side of the swarm AI. This includes creating all the hardware and software interfaces. Piecing together all the required input/output modules needed for bot-to-bot communication. Radiolocation; Sonar; Swarm RF communication; Raspberry Pi;
* **RS3 GE Prediction Model** (2017). Developed a model that predicts future prices of items in a game by collecting three months of data and running a linear regression algorithm to produce price predictions.