Daniel Engbert

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portfolio: github.com/dangbert

Education	 University of Maryland Baltimore County (UMBC) Computer Science Major, Math Minor 3.7 GPA, 135 Credits 	May 2019
Work Experience	Computer Vision Intern, Robotic Research LLC Trained a Caffe2 neural network on several datasets to perform object detection. Created a C++ camera driver for a computer vision system and performed stereo vision with ROS.	Summer 2018
	Software Developer Intern, $AT&T$ Worked on an Agile team to improve a network security tool by integrating a deep packet inspection C library into the tool and by writing shell scripts to manage a Hive database built on top of a Hadoop Distributed File System.	Summer 2017
	Full Stack Web Developer Intern, UMBC Imaging Research Center Added a major feature to retrieverstories.umbc.edu (UMBC's social media site) allowing users to discover and group related posts into a public collection. Used SQL, PHP, JavaScript, HTML, and CSS.	Summer 2016
	Assistant Programming Instructor, Black Rocket Productions Taught programming skills to middle schoolers at a technology summer camp.	Summer 2014
Projects	Where to Live – <i>Group Project</i> Concreted a website for discovering the optimal places to live. Populated an SQL database using data scraped from a web API and ingested from csv files. Hosted the site on AWS.	2018
	Ray Tracer – Course Project Proje	2018
	A.I. Algorithms – Course Project Implemented the Hill Climbing and Simulated Annealing optimization algorithms in Python to optimize employee shift schedules with respect to a heuristic function. Also implemented a general purpose decision tree for training on and categorizing data.	2017
	VEX Robot – <i>Course Project</i> O Designed and programmed a robot to complete challenges (moving objects around an obstacle course) and won a college level competition against 15+ teams.	2016
	Arduino Bike Game – High School Capstone Project Developed an Arduino system with sensors and a custom PCB that enabled users to control race cars in a computer game while exercising on a stationary bike.	2015
Skills/	Programming and Tools	

SKIIIS/

- Involvement Pythor
- Python, C++, C, Shell scripts, Java, R, Android Studio
 - Flask, PHP, SQL, Node.js, React, JavaScript, HTML, CSS
 - Linux, Git, SVN

Software: SolidWorks, SketchUp, EAGLE CAD, Photoshop

Electronics: Extensive Arduino and PIC microcontroller experience

Languages: Spanish (intermediate level)

Involvement:

- TA (1 year), Resident Assistant (2 years), and C++ Tutor (1 year)
- UMBC Environmental Task Force Club
- UMBC Hackers Club (participated in 5 Hackathons)

■ Eagle Scout

2014