Daniel Engbert

410-776-1195 end1@umbc.edu Forest Hill, MD

portfolio: github.com/dangbert

Education	University of Maryland Baltimore County (UMBC)	May 2019
	Computer Science Major, Math Minor3.7 GPA, 135 Credits	
Work Experience	Computer Vision Intern, Robotic Research LLC Trained a Caffe2 neural network on several datasets to perform object detection within a Docker environment and wrote Python scripts to convert various datasets to a common format. Created a C++ camera driver for a computer vision system in a ROS pipeline.	Summer 2018
	Software Developer Intern, $AT\&T$ Improved a network security tool by writing shell scripts to manage a Hive database built on top of a Hadoop Distributed File System, and by integrating a deep packet inspection C library into the tool. Participated in (Agile) code reviews and sprint planning.	May 2017- Dec 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. Created the full-stack solution for this feature using PHP, SQL, HTML, JS (with jQuery), and CSS.	Summer 2016
	Assistant Programming Instructor, Black Rocket Productions Taught programming skills to middle schoolers at a technology summer camp.	Summer 2014
Projects	spearopedia.com – <i>Personal Project</i> Created a website to help people browse and compare spear-fishing equipment. Hosted the site on AWS using Python, Flask and a PostgreSQL database. Implemented user accounts, an admin page for adding new products to the database, and unit tests.	2017
	Where to Live – Course Project Project Course Project Project Course Project Pr	2018
	Ray Tracer – Course Project Designed a ray tracer in C++ capable of rendering images and videos of 3D scenes with shading, shadows, and reflections. Also implemented a rasterizer and mesh smoother.	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.	2017
Skills/	Programming and Tools	

Involvement

- Python, C++, C, Shell Scripts, Java, R
 - Flask, SQL, PHP, Node.js, React, JavaScript, HTML, CSS
 - Linux, Docker, Apache, Git, SVN, Android Studio

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