



Daniel Engbert

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portfolio: github.com/dangbert

Education	University of Maryland Baltimore County (UMBC) <ul style="list-style-type: none">Computer Science Major, Math Minor3.7 GPA, 135 Credits	May 2019
Work Experience	Computer Vision Intern, <i>Robotic Research LLC</i> 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. Software Developer Intern, <i>AT&T</i> 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. Full Stack Web Developer Intern, <i>UMBC Imaging Research Center</i> 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. I created the full-stack solution for this feature (created the frontend UI and backend PHP code for endpoints allowing database search, and the creation/editing of collections). Also collaborated with the rest of the team to identify and fix various bugs with the site. Assistant Programming Instructor, <i>Black Rocket Productions</i> Taught programming skills to middle schoolers at a technology summer camp.	Summer 2018 Summer 2017 Summer 2016 Summer 2014
Projects	Where to Live – Group Project  Created a website for users to discover the optimal places to live based off search criteria. My team identified several data sources to use, and I designed an SQL schema and created scripts to ingest the data from the sources into the database (queried a web API for data about every county in the U.S. and merged the data with ingested .csv files). Also created a web API endpoint enabling the final database to be searched and hosted the site on AWS. 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. spearopedia.com – Personal Project Created a website to help people browse and compare spear-fishing equipment. Hosted the site on AWS using Python, Flask and an SQL database. Implemented user accounts and a login for an admin to access a UI for adding new products to the database. Also created unit tests to test functionality when changes are made to the site.	2018 2018 2017
Skills/ Involvement	Programming and Tools <ul style="list-style-type: none">Python, C++, C, Shell Scripts, Java, RFlask, PHP, SQL, Node.js, React, JavaScript, HTML, CSSLinux, Git, SVN, Android Studio Software: SolidWorks, SketchUp, EAGLE CAD, Photoshop Electronics: Extensive Arduino and PIC microcontroller experience Languages: Spanish (intermediate level) Involvement: <ul style="list-style-type: none">TA (1 year), Resident Assistant (2 years), and C++ Tutor (1 year)UMBC Environmental Task Force ClubUMBC Hackers Club (participated in 5 Hackathons)Eagle Scout	