**Daniel Engbert**  
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 portfolio: github.com/dangbert

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| 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.  **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.  **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. 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,** *Black Rocket Productions* 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**   * Python, C++, C, Shell Scripts, Java, R * Flask, PHP, SQL, Node.js, React, JavaScript, HTML, CSS * Linux, 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 |  |
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