**Daniel Engbert**  
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| Education/  Involvement | **University of Maryland Baltimore County (UMBC)**   * 3.8 GPA, 108 Credits * Computer Science Major, Math Minor * Expected Graduation: May 2019   **Involvement**   * UMBC Hackers Club (attended 5 Hackathons) * Resident Assistant * Eagle Scout (2014) * Robotics FRC Team 3941 | 2015-  Present |
| Work Experience | **Software Developer Intern,** AT&TImproved a DPI network security tool by integrating the nDPI C library and by writing shell scripts to manage a Hive database built on top of Hadoop.  **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 collection. Used SQL, PHP, JavaScript, HTML, and CSS.  **Assistant Programming Instructor,** Black Rocket Productions Taught programming skills to middle schoolers at a computer camp. | Summer 2017 |
| Summer 2016 |
| Summer 2014 |
| Projects | **Batch Photo Cropper** *– Personal Project*Currently working on using OpenCV to crop/rotate batched-scanned photos.  **A.I. Algorithms** *– Course Projects*   * Implemented the Hill Climbing and Simulated Annealing algorithms in Python to optimize employee shift schedules based on a heuristic function. * Implemented a decision tree in Python that trains using the ID3 algorithm. * Implemented the k-means clustering algorithm in Python.   **Travel Route Optimizer** *– Personal Project*Used the Google Maps JavaScript API to create a webpage that identifies the best route for users to travel when stopping at multiple waypoints.  **Multipurpose Robot** *– Course Project*Designed and programmed a robot to complete various challenges and won a college competition with 15+ teams.  **Arduino Bike Game** *– High School Capstone Project*Developed an Arduino system with sensors, a custom PCB, and an exercise bike to control race cars in a computer game while exercising. |  |
| Technical Skills | **Programming**   * Python, Java, C++, C, Shell scripts, R * Flask, PHP, SQL, Node.js, React, JavaScript, HTML, CSS * Linux, Git, Vim, Android Studio, VB   **Software**   * SolidWorks, SketchUp, EAGLE CAD * GIMP/Photoshop   **Electronics**   * Extensive Arduino and PIC microcontroller experience |  |