

# Kyle Rood

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101 Williams Way  
Rochester, MA 02770

## EDUCATION

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**The George Washington University**, School of Engineering and Applied Science, Washington D.C.  
Bachelor of Science in Computer Science; Minor: Sustainability

**May 2020**

**Relevant Courses:** Databases and Team Projects, Systems Programming, Intro to Software Development, Discrete Structures I and II, Algorithms and Data Structures, Software Engineering, Computer Architecture, Physics I and II

GPA: 3.6

## TECHNICAL SKILLS

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**Programming Languages:** Java, C, HTML, SQL, PHP, Python, PostgreSQL

**Programs/Operating Systems:** Filmora, OSX, Linux, Windows

## TECHNICAL PROJECTS

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**Generic Web-Based Image Classifier**

**July 2018**

- Python and Flask based pipeline to classify any object the user wants
- Download images of an object, trains a Keras neural network on 256 ImageNet categories, and allows user to upload a test image and the model will identify the object in the image

**Simulation**

**October 2017-November 2017**

- Simulated a forest fire given a random landscape of trees and a random ignition pattern
- Accounted for the fact that different types of trees will burn differently
- Made a GUI to display the landscape as it burned, as well as data relevant to the simulation (number of trees burned, number of live trees, how many trees were currently burning, etc.)

**PHP based DBMS (Team based)**

**March 2018-May 2018**

- Web based application to simulate the application and course registration system at The George Washington University
- Designing system with multiple types of users, each with different roles in the system (admin, applicant, etc.)
- Front end and back end management of the system

## RESEARCH EXPERIENCE

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**Computer Science Department, The George Washington University, Undergraduate Research Asst.** Oct. 2017 - Present

- Modularize a computer science curriculum to bring it to an online audience
- Write and record audio/visual segments to help teach undergraduate students about introductory computer science topics

**Computer Science Department, Undergraduate Research Asst.**

**Dec. 2017 - Present**

- Using database of 13,000 cameras worldwide for image analysis and classification
- Revamping and redesigning a website and database to use these webcam images for different analyses

## EXTRACURRICULAR EXPERIENCE

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**Damien's Food Pantry**

**Dec.-Jan. of 2014-Present**

- Giving groceries to local homeless people on Wednesdays and Saturdays

**Engineers without Borders**

**March 2018-Present**

- Designing and building a water catchment system to install on rooves in La Pena, El Salvador
- Prepare for a trip to La Pena by organizing logistics and paperwork with a team of students

## WORK EXPERIENCE

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**Target, Wareham, MA**

**June-Aug. 2017**

- Customer service

**The Mac Express, Wareham, MA**

**Jan.-Aug. 2016**

- Sales and Apple Certified Tech Team
- Provided tech support for all Apple Products