

ALFONSO BUONO

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EDUCATION

Rutgers University · 2021

B.S. Computer Science + Mathematics

GPA: 3.720 / 4.0

Coursework: Data Structures, Computer Architecture, Systems Programming, Databases, Discrete Structures, Grad Intro to AI (Current), Discrete Structures II (Current)

EMPLOYMENT

Pearson K12 Learning

Software Engineering Intern · June 2019 to Aug. 2019 · Boston, Massachusetts

-Worked on various DevOps tools and services that assisted in monitoring the company's network.

--Used **Python** to build **Nagios Core** Service to notify 100+ engineers when any of 500+ SSL Certificates were close to expiring.

--Used **Python** to write script to check what CDN was being used for the 100+ endpoints in order to assist in data migration.

-Used **React Native**, **Google Vision**, **Express.js** and **Node.js** to build a photo-recognition app to scan 1000+ textbook pages from 100+ textbooks for links and additional material for a learning tool.

--Used **React Native** components to take photo, passed to Google Vision Optical Character Recognition Engine (**OCR**) to get text on page, checked similarity to pages on file, returned link for page most similar to one passed (within 0.98 similarity).

Rutgers University

Math Department Grader · Sept. 2018 to Current · Rutgers University

-Worked with the professors in the mathematics department as well as one other student in order to grade assignments and provide feedback on the topics that need more coverage in lecture.

PROJECTS

Chi Phi Website · July 2019 to Current

-Used a **Bootstrap** template, **Google Firebase**, and **JavaScript** to create a page for a fraternity at Rutgers University.

-Utilized **Google Firebase** and **JavaScript** to create an admin dashboard to allow executive board members to change content on the website.

Project IMS (Intern Messaging System) · July 2019

-Used **Python** to create a multi-threaded command-line chatroom client and server.

-Implemented sockets and multi-threading so the server can handle multiple chatrooms and multiple user connections concurrently.

-Users and admins have access to commands that can be used via the server as well as the client.

Discord Bot · Jan. 2018 to Current

-Used **Node.js** and **Discord.io** to build a bot that plays audio clips, handles users, and sends messages dependent on the command inputted.

-Helps manage and maintain a server of 30+ concurrent users.

Sneakies · Sept. 2018

-Used **Android**, **Google Directions API**, an LED strip, and an **Arduino** to create a mobile application that connects to a pair of sneakers.

-Together the application and shoes help direct the user to where they want to go by lighting up the LEDs in different patterns.

SKILLS

PROGRAMMING LANGUAGES: Java, C#, Python, C, JavaScript

TOOLS: Unity, Android Studio, Blender, Git, Unreal Engine, NagiosCore, Node.js, Express.js

LEADERSHIP

HackRU · Executive Director

Mar. 2019 to Current · Rutgers University

-Oversee 7 sub-teams and work with university administration to run HackRU, New Jersey's largest bi-annual hackathon, for 700+ participants.

Undergraduate Student Alliance of Computer Scientists · Events Planning Chair

Sept. 2018 to May 2019 · Rutgers University

-Help plan and organize events for the largest computer science club at Rutgers University.