

John Allen Culley

Computer science major with a passion for problem solving and utilizing code to better humanity. Interests lie within the fields of web application development and machine learning/AI. Short-term goal is to work within a team of experienced software developers to harden skills and grow as a software engineer.

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EDUCATION

The Ohio State University: Columbus, OH
— *B.S Computer Science and Engineering*

August 2019 - May 2023

Beta Upsilon Chi Fraternity - *Pledge Captain*

GPA 3.6

SKILLS

Java and C programming

HTML/CSS

Javascript/React

Unix/Linux

Relational databases and SQL

Python

Machine Learning

PROJECTS

Smart Photo Library(personal) - Web application where a user can sign up, login, upload photos, and view their gallery, which classifies every photo into 1 of 10 categories using a convolutional neural network. Frontend was made using React with React Redux for authentication functionality, a Postgres database, and the Django Rest Framework to interact with the database. Tensorflow was used to make the neural network with the training and test data coming from the cifar-10 dataset.

Portfolio(personal) - A responsive personal website built using React. Within the website, React Router, Intersection Observer, and EmailJS were used and Github Pages was used to host the site.

Grader Web Application(school) - Worked on a team of 5 total students to develop an application to allow functionality for students to apply as a grader for a certain class, instructors to recommend and request students for their section, and admins to assign graders to certain sections. This was built using Ruby on Rails with a Postgres database, Bulma for the front end design, and a Jira board to distribute the work evenly.

Background Automation(work) - Upgraded a bot by developing a Powershell script to pull data, clean the data, send emails, then update the data on the website that it pulled from. The bot previously did all this work via the UI but the Powershell script bypassed all of that by going through the backend. The upgrade ended up being much more reliable and saved several minutes per run.

WORK EXPERIENCE

KeyBank: Columbus, OH
— *Software Engineer Intern*

May 2022 - August 2022

Developed software bots as a part of the Service Digitalization team. The goal was to create bots to eliminate tedious work that a human would need to do. The team consisted of 4 other interns as well as 5 full time employees. Interns made several upgrades to already existing bots, built and deployed a new bot from scratch, and produced Python/Powershell scripts to gather, parse, and clean data.

AWARDS

Nominated for the 2019 Columbus Dispatch Scholar Athlete Award - one boy and one girl from each high school is selected. 117 highschools were included.

Dean's List - 4 total semesters

