AARON CHRISTSON

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EDUCATION

Berea College
Bachelor of Arts Computer and Information Science
Minors in Business Administration and Mathematics
Graduation Date: May 2020
Major GPA: 3.67
Overall GPA: 3.54

Relevant Courses
Data Analytics — Data Structures — Networking — Database Systems — Deep Learning — Applied Statistics — Calculus II — Theory of Computation — Open-Source Software Engineering — Embedded Systems — Differential Equations — Linear Algebra — CyberSecurity(Codepath/Facebook)

SKILLS

LANGUAGES: Python, C++, R, PHP, MySQL, JavaScript
TOOLS: Jupyter Notebook, Pandas, Numpy, Keras, PyTorch
OTHER SKILLS: Unix/Linux, Git/Github, Microsoft Office Suite, French Language, G-Suite

PROJECTS

Predicting Generalization in Neural Networks *May 2019 – Aug 2019*
Built a neural network generator using **Python** and **PyTorch** that produced random neural networks fitted to the CIFAR 10 image dataset and a data processor to format the generated neural networks in a way that could be used as an input to other neural networks.
Saved the team several days of manually generating a dataset of neural networks.

CELTS Database System *Aug 2019 – Dec 2019*
Worked on a team of four to build a relational database system, using **HTML**, **CSS**, **MySQL**, and **PHP** to help CELTS, a non-profit organization in Berea, keep better track of the number of volunteer hours their volunteers worked.

Problem Solving with Algorithms and Data Structures using C++ (Open Source) *May 2018 – July 2018*
Co-authored a book for Python programmers to help with the transition to **C++** (C++ for Python Programmers and C++ Data Structures and Algorithms) utilizing open source resources from Runestone Academy, a website accessed by over 100,000 people. (https://runestone.academy/runestone/static/cppds/index.html)

Greenaive *Dec 2017 – Current*
Built a web application on a team of four people that used **Python** and **Flask**, as a participant of the Berea College Hackathon. Our web app used the **Clarifai API** to distinguish between objects that are considered as trash, compostable, or recyclable. Because of the sustainability theme we were able to win first place. (https://greenaive.co/)

EXPERIENCE

University of Illinois at Urbana-Champaign, DREU, Champaign, Illinois (Research) *May 2019 – Aug 2019*
Worked under Dr. Koyejo and PhD student Brando Miranda to build a Meta Learning neural network that predicts the generalization error of a neural network based on its architecture.
Assisted with building a dataset for the model by using PyTorch to fit several models to the CIFAR10 dataset and collecting information about the architecture, the train error, and the test error.

Berea College, *Teaching Assistant*, Berea, Kentucky *Aug 2017 – May 2020*
Assisted the Data Structures professor with the redesign of the course, by writing up quizzes for the assigned readings from the new C++ Data Structures book I helped to write and grading in-class work and homework.
Held TA hours for 2 hours four times a week to help over 30 students to understand challenging Data Structures concepts.

ACTIVITIES

Facebook Developer Circle, *Berea*, Member *July 2019 – Current*
Epsilon Pi Tau (Technology Honor Society), Member *Apr 2019 – Current*
Computer Science Club, Member *Sept 2018 – Current*