

Ana Boccanfuso

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EDUCATION

University of South Carolina Honors College | Columbia, SC

December 2023

B.S. - Computer Science, Minor in Data Science

Cumulative GPA: 3.97

Coursework: Data Structures, Algorithms, Programming Language Structures, Discrete Mathematics, Linear Algebra, Probability and Statistics, Logic Design, Computer Architecture, UNIX/Linux Fundamentals, Software Engineering, Operating Systems, Technical Writing, Visualization Tools, Foundations of Computation, Big Data Analytics

SKILLS & TECHNICAL TOOLS

Languages: C++, Python, HTML, Java, CSS, R, JavaScript, SQL, HiveQL, Apache Pig

Technologies: Django, React, Git, Jupyter Notebook, Tableau

EXPERIENCE

Software Development Engineer Intern | Amazon Web Services (AWS)

May 2023- Aug 2023

- Worked on the OSPlat team to enhance 500+ Amazon One devices across the U.S. by writing quality code
- Formatted metrics from the device to display a comprehensive and useful dashboard for store and developer use
- Programmed an API client in Java to communicate team information to the cloud
- Integrated embedded systems reboot information to translate to the cloud

Software Engineer Intern | Van Robotics

May 2022- Aug 2022

- Built an API to expand over 100 robotic social behaviors using Python and HTML
- Created local and remote websockets for use in school and home robots to interact with the API

PROJECTS

FlashDash | Python, JavaScript, HTML, Django, ReactJS, PostgreSQL

- A web application to allow users to create and study from sets of terms.
- Enables flashcard functionality and quiz yourself feature, with fill-in-the-blank or multiple choice options.
- Provides users with quiz analytics, recently viewed sets, and saved sets.
- Users can filter through search results by set tags such as school, class, or other related subjects.

Spotify Data Analysis | R, Tableau, HTML, CSS

- A website displaying my analysis of pop music history, pop artists, and my personal music data using the Spotify API.
- Contains interactive graphs and charts created by cleaning data and utilizing Tableau and R.
- Stylistically resembles the Spotify landing page on a desktop.

Algorithms | C++

- Four projects that execute different algorithms including quicksort, creating a heap using the bottom-up algorithm, Horspool's algorithm, and Floyd's algorithm.
- Effective and efficient implementation from pseudocode.

Internship Application | Java, Json, SCRUM, design patterns, UML creation, unit testing, Git

- A terminal-based application that allows students to search for internship listings and create a resume profile.
- Employers create company profiles and post internship opportunities for students.
- Students apply with their resume to internships and leave reviews for companies.

Client-Server | C++

- Three projects implementing client-server communication using various methods: UNIX domain sockets, shared memory, and memory-mapped files.
- Functionality to find a search string in a text file, and the server relays this information back to the client.