JULIAN ABAM

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Professional Experience

Undergraduate Researcher, GENETIC LOGIC LAB - *Boulder, Colorado*   **March 2021 - Present**
Responsibilities

➢ Utilizing python library pySBOL2 in order to implement the library objects into a pandas dataframe, and then into Excel format

Digital Marketing Intern, SAMBA SCIENTIFIC - *Longmont, Colorado*   **February, 2020 - March 2021**
Responsibilities

➢ Utilized the python library Scrapy to crawl through various web pages and dumping them into a readable format for the purpose of tracking data

➢ Wrote python script used for converting dictionaries into legible .JSON format

➢ Assisted in designing the directus schema of the company database within directus

➢ Played a helped the company choose a cloud based infrastructure through creating a comparison project focused on measuring the benefits and setbacks of Google Cloud Platform and Amazon Web Services

➢ Wrote python script designed to read through file and count the number of times a keyword appears within it

➢ Created a presentation based on how the business could further market and develop their product in order to best suit the customers' needs

➢ Worked with .dot language in order to create subway maps for specific client companies

➢ Worked in Bubble.io in order to design a minimum viable product for the company's first job board

Team Member, GIBSON AND ARNOLD ASSOCIATES - *Denver, Colorado*   **June, 2019**
Responsibilities

➢ Participated in data breach projects which included viewing documents and doing data entry for information that has been tampered with

Web Developer, PREPARINGTOFINISHWELL.ORG - *Denver, Colorado*   **June, 2014 - August, 2018**
Responsibilities

➢ Added a Google Maps page in which users could utilize to find locations and dates of upcoming seminars

➢ Made stylistic and semantic updates to website through use of JavaScript

Education

UNIVERSITY OF COLORADO, BOULDER   **Expected Graduation: May, 2022**

➢ Bachelor of Arts and Sciences, Computer Science

➢ Minor in Creative Technology and Design

➢ Minor in Data Science

Relevant Undergraduate Coursework

➢ Calculus 1, Calculus 2, Discrete Mathematics, Data Structures, Computer Systems, Algorithms, Principles of Programming Languages, Intro to Data Science, Database Management Systems

Projects

WEBSITE
Personal Project (HTML, CSS, Javascript)

➢ Designed a personal website utilizing bootstrap for HTML and CSS, as well as a the Flickr API

SAVE THE USPS
Data Structures Project (C++)

➢ The data used for tracking the shipments utilizes integer based tracking IDs. The USPS has provided two sets of experimental data for us to test our algorithms. We need to perform analysis on both of these sets of data and find a data structure that strikes the best balance in run-time performance

ITEM CHECK
Personal Project (Python)
➢ An application that takes in the amount of items a user has and generates a receipt with the time, date, and a unique User ID for all of the items that comes in the form of an array

Extracurricular Activities

Mentor, MENTOR COLLECTIVE PROGRAM AT CU BOULDER - Boulder, CO   **May 2021 - Present**

➢ The College of Arts and Sciences' Mentor Collective program enhances the student experience by linking A&S first-year students one-on-one with an upper division peer mentor. All students in the CU Boulder program identify as first-generation college students and/or students of color. Mentees are paired with a mentor who is invested in their success — a person ready to listen, inspire, help navigate challenges and recognize opportunities. Mentees will learn what to expect in school, how to approach challenges, gain career advice and learn valuable insights, while mentors will build their networks and develop skills to become better professionals and leaders.

Attendee, SEED - *Virtual*   **June 2021**
➢ The Synthetic Biology Engineering Evolution & Design (SEED) conference focuses on advances in science, technology, applications, and related investments in the field of synthetic biology.

Attendee, THE COMPUTATIONAL MODELING IN BIOLOGY NETWORK - *Virtual*   **March 2021**
- ➢ HARMONY is a codefest-type meeting, with a focus on development of the standards, interoperability and infrastructure within synthetic biology, through the Computational Modeling in Biology Network (COMBINE). There are generally not many general discussions or oral presentations during HARMONY; instead, the time is devoted to allowing hands-on hacking and interaction between people focused on practical development of software and standards.

Scholar, DELTA ETA BOULE SCHOLARSHIP FOUNDATION - *Denver, Colorado*   **May 2018 - Present**

Experience
- ➢ Delta Eta Boulé Scholars are students who demonstrate their desire and ability to overcome barriers and to achieve their goals. Scholars are evaluated on determination to succeed, their ability to communicate, and self-motivation.

Beau, JACK AND JILL DENVER BEAUTILLION - *Denver, Colorado*   **August, 2017 - December, 2017**

Experience
- ➢ Young men selected as Beaus since the inception of this program were prepared for success by their parents, teachers and community. The beautillion continues to recognize a small sampling of youth that defy the odds and dispel stereotypes.

Community Service: Big Brother Program
- ➢ Took lead in organizing the Big Brother Program, in which Beaus met with elementary school aged African American boys and taught them the importance of exhibiting leadership, discipline, and hard work whenever they are confronted with racism

Technical Experience

LANGUAGES:

- ➢ **C++, HTML, Python, Java, JavaScript, MongoDB, Scala, Swift, SQL, XPATH**