

Caleb Johnson

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Education

University of Utah

M.S. IN COMPUTER SCIENCE

Aug. 2021 - Apr. 2023

Brigham Young University

B.S. WITH HONORS IN COMPUTER SCIENCE AND STATISTICS

Aug. 2017 - Apr. 2021

3.75 CGPA, 3.91 CS GPA

Work Experience

KPMG

DATA SCIENCE INTERN

Oct. 2021 - PRESENT

Python

- Built and developed a deep learning model in PyTorch to classify the prevailing emotion of client inquiries. Created necessary processing pipelines and deployed it to AWS, working with the development team to integrate it into the company's application.
- Designed a high-quality information dashboard that provided supervisors up-to-date statistics on accountant behavior and performance.

DRAGN Labs

NATURAL LANGUAGE PROCESSING RESEARCHER & SOFTWARE DEVELOPER

Feb. 2020 - Jul. 2021

Python, Swift, Java

- Implemented a new data classification process utilizing Android/iOS clients to a hosted server that improved the average speed of classification by a factor of over 3. This enabled our team to finish the data classification process 4 months ahead of schedule.
- Designed and trained a novel emotion classifier to compare communication trends online by their perceived level of identifiability. Leveraged this model to classify millions of records with a classification accuracy over 3% better than other models.
- Organized the pipelining and high-level classification of hundreds of thousands of Twitter accounts by their level of identifiability.

BYU Honors College

SUMMER RESEARCH FELLOW & SOFTWARE ENGINEER

Apr. 2020 - Sep. 2020

AngularJS

- Designed and launched a robust research database for the Honors College at Brigham Young University that connected prospective undergraduate researchers.
- Designed and maintained a centralized web service that streamlined the process for Honors College students looking to find research advisors for their Honors Thesis projects.

Record Linking Lab

SOFTWARE DEVELOPER

Jul. 2018 - Aug. 2019

Python

- Collaborated with Ancestry.com to optimize a matching algorithm that improved correct parent classifications by over 20%.
- Implemented a document segmentation application to improve data categorization of marriage records by a factor of over 5 compared to human-entry.
- Key contributor on the formation of the Longitudinal Intergenerational Family Electronic Microdatabase (LIFE-M), a robust database that has been leveraged in papers by researchers at Yale, Michigan, and more.

Skills

Highly Skilled and Proficient: Python, R, Swift, SQL, Database Design, Data Modeling, Mongo

Experienced: Java, C++, C, Javascript, Unix, NoSQL

Frameworks: SwiftUI, Pytorch, Vue

Leadership

- '20-'21 **Database Modeling Teaching Assistant**, Helped teach an upper-level university course of 100+ students *Provo, UT*
- '19-'21 **Honors Student Advisory Councilman**, Helped coordinate a 1,000+ member Honors College at BYU *Provo, UT*
- '20 **Honors College Ambassador**, Served as a liaison, connecting student concerns with leadership *Provo, UT*
- '20-'21 **Somali Community Refugee Ambassador**, Volunteered weekly, assisting refugees with work assistance *SLC, UT*
- '19 **English Instructor**, Taught English at a boarding school in China, instructing over 2,000 students *Gaoping, China*
- '20 **Competitive Programming Club Vice President**, Helped coordinate affairs of the club *Provo, UT*