

Chenke (Alex) Bai

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Education

UNIVERSITY OF COLORADO BOULDER

AUG-2018 – CURRENT | EXPECTED GRADUATION YEAR - 2022 | BOULDER, CO

- Bachelor of Science in Information Science
- Minor in Computer Science

Relevant Programing Skills

- Python
- C++

Relevant Working Experience

STUDENT RESEARCH ASSISTANT | CU BOULDER | MAR 2019 - CURRENT

- Collect and organize parents' interview data on children's use of computational toys and apps for educational qualitative research.
- Analyze qualitative data samples by conducting a thematic analysis on 18 interview documents.
- Utilize MAXQDA and Google Drive to model results, generate reports and store data.

Related Project

STUDY GAMER'S BEHAVIOR THROUGH ACHIEVEMENT DATA (STEAM) | NOV 2019 – DEC 2019

- Use Python on Jupyter Notebook to pull API data in JSON format.
- Use Python's built in "pandas" library to analyze .csv file.
- Visualize data from Valve Developer Community using Python.
- Conducted analysis on gamer's game achievements data and study gamer's behavior in the game. (Project in Github).

CLASS PROJECT (BUILD A DNA ANALYZER USING C++) | FEB 2020 – FEB 2020

- Use C++ to write functions that take user input genome sample and compare it with known virus genome to calculate the similarity score between two sets of genomes.
- Use C++ to call functions that take a genome and a sequence to find the highest similarity score in genome table
- Write C++ function that takes 3 genomes and a sequence to find the best match genome.

Publication

Yu, J., Bai, C. & Roque, R. (2020) Considering Parents in Coding Kit Design: Understanding Parents' Perspectives and Roles. In the ACM Conference on Human Factors in Computing Systems (CHI '20), Honolulu, HI, USA. (To appear)

Volunteering Experience

STUDENT VOLUNTEER | CU BOULDER | AUG 2019 – AUG 2019

- Volunteered over 13 hours in 3 days helping with move-in for incoming students.
- Assisted with moving items and cleaning area at Black & Gold Bash event.
- Removed trash and debris from the field, parks and other public locations.

Skills

Data Script using python, Data Visualization in Python, Data Evaluation, Quantitative analysis, Experienced in SQL, Non-Verbal & Verbal communication, Motivational, Prioritizing.