

AIQI CUI

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Information Systems with Concentration in Quantitative Analysis
Secondary Major in Statistics & Machine Learning

Pittsburgh, PA
Expected May 2020
Major GPA: 3.91/4.0

RELEVANT COURSES

Machine Learning (Master's level), Practical Data Science, Data Mining, Data Visualization, Statistical Computing, Statistical Reasoning and Practice, Database Design and Development

RESEARCH EXPERIENCE

CMU School of Computer Science, HCI

Research Assistant, advised by Dr. Jessica Roberts and Marti Louw

Pittsburgh, PA
November 2018 – Present

- **Learning Pattern Data Mining with Website User Log** (On Preparation for a major conference in 2020)
 - Employed clustering techniques to demonstrate learning pattern differences between novice and professional users
 - Leveraged Python and Javascript visualization to make a causal inference of factors impacting users' learning curves
- **Interactive Dichotomous Web Key**
 - Built an interactive dichotomous web key for macroinvertebrate identification
 - Collaborated with scientists and designers on interaction design iterations to improve user experience
 - Performed multiple rounds of interviews with real-world users to test usability and collect feedback
- **Mobile App for macroinvertebrates.org**
 - Designed and implemented a cross-platform offline-first mobile application with React Native (v1.0) and Flutter (v2.0) to allow users to easily identify macroinvertebrates in outdoor environments
 - Re-designed and developed the project site's database to satisfy mobile needs and saved 5GB+ memory

BUSINESS EXPERIENCE

Handshake

Software Engineering Intern

San Francisco, CA
May 2019 – August 2019

- Conducted multiple A/B tests on search relevance and analyzed results with BigQuery to improve application rate
- Utilized Elasticsearch to enhance job role search performance and boosted conversion rate by 262% in 7 days
- Initiated company-wide web accessibility discussion on the platform user interface leading to 10+ major changes

CMU IEA Talent Pool

Co-Founder & CTO

Pittsburgh, PA
September 2017 – November 2018

- Co-founded a talent recruitment platform to connect college students with international working opportunities
- Led a team of 6 members for the full-stack development of Talent Pool web application with Ruby on Rails
- Utilized Agile Development Lifecycle to manage product development and oversaw two version releases

Microsoft

Software Engineering Intern

Guangzhou, China
May 2018 – August 2018

- Created a classification model with Python to raise chatbot's chitchat response accuracy from 70% to 96%
- Built and organized a bilingual knowledge base with 3000+ utterance data to support 95% business FAQs
- Analyzed and presented weekly user response data via Tableau to assess the efficiency of each project sprint

LEADERSHIP

Mortar Board Senior Honor Society
Executive Board, Historian & Webmaster

Pittsburgh, PA
August 2019 – Present

CMU Department of Statistics
Peer Mentor

Pittsburgh, PA
September 2018 – Present

CMU Innovation and Entrepreneurship Association
Director of Talent Pool

Pittsburgh, PA
September 2017 – November 2018

Strong Women Strong Girls
Mentor

Pittsburgh, PA
February 2017 – June 2017

HONORS & AWARDS

CMU x Capital One iOS App Competition, Journey Award (Top 1 in Culture Category)

December 2019

Mortar Board Senior Honor Society, Member

August 2019 – Present

Dean's List, 5/6 semesters

August 2016 – Present

CMU Hack 112 Hackathon, Top 10 Team

April 2017

SKILLS

Data Analytics: Python, SQL, R, Scikit-Learn, Hadoop, MapReduce, Pig, Tableau, Excel Pivot Table

Software Development: Ruby on Rails, C, JavaScript, React, HTML, CSS, Ajax, Flutter, TypeScript, Git, Swift