AIQI CUI

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EDUCATION

Carnegie Mellon University — Pittsburgh, PA

Bachelor of Science in Information Systems with Concentration in Quantitative Analysis — Expected May 2020

Secondary Major in Statistics & Machine Learning — Major GPA: 3.89/4.0

Relevant Courses: Practical Data Science, Data Mining, Machine Learning (Master's level)

RESEARCH EXPERIENCE

CMU School of Computer Science, HCII — Pittsburgh, PA

Research Assistant, advised by Dr. Jessica Roberts and Marti Louw — November 2018 – Present

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

BUSINESS EXPERIENCE

Handshake — San Francisco, CA

Software Engineering Intern — 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 — Pittsburgh, PA

Co-Founder & Director — 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 — Guangzhou, China

Software Engineering Intern — 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 — Pittsburgh, PA

Executive Board, Historian & Webmaster — August 2019 – Present

CMU Department of Statistics   Pittsburgh, PA
Peer Mentor   September 2018 – Present

CMU Innovation and Entrepreneurship Association   Pittsburgh, PA
Director of Talent Pool   September 2017 – November 2018

Strong Women Strong Girls   Pittsburgh, PA
Mentor   February 2017 – June 2017

HONORS & AWARDS

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