

Chelsea (Aiqi) Cui

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EDUCATION

Carnegie Mellon University (GPA: 3.76/4.0), Pittsburgh, PA

May 2020

Bachelor of Science in Information Systems, Additional Major in Statistics & Machine Learning

Honors: Mortar Board Senior Honor Society, Dean's List 5/6 semesters

WORK EXPERIENCE

Handshake, San Francisco, CA

May 2019 – August 2019

Software Engineering Intern

- Used Elasticsearch to enhance job role search performance and increased conversion rate by 262% in 7 days
- Initiated company-wide web accessibility discussion on the platform user interface leading to 10+ major changes
- Conducted A/B tests on search relevance and emails with React and Ruby on Rails to improve application rate

CMU Summit Talent Pool, Pittsburgh, PA

September 2017 – November 2018

Co-Founder & Director

- Co-founded a talent recruitment platform to help students connect 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 Software Development Lifecycle to manage product development

Microsoft, Guangzhou, China

May 2018 – August 2018

Software Engineering Intern

- 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 weekly user responses via Excel Pivot Table and Tableau to assess the efficiency of each project sprint and major functional changes

RESEARCH EXPERIENCE

CMU School of Computer Science, HCII, Pittsburgh, PA

November 2018 – Present

Research Assistant

NSF Awarded Project: Learning to See, Seeing to Learn (advised by Dr. Jessica Roberts and Marti Louw)

- Learning Pattern Data Mining with Website User Log
 - Engineered a data mining algorithm to analyze user log data through principal component analysis and clustering
 - Leveraged Python and Javascript to investigate and present learning pattern differences between novice and professional users
- Interactive Dichotomous Web Key
 - Built an interactive dichotomous key for macroinvertebrate identification using JavaScript and HTML
 - 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

INVOLVEMENT

Mortar Board Senior Honor Society, Executive Board, Historian & Webmaster

August 2019 – Present

CMU Department of Statistics, Peer Mentor

September 2018 – Present

CMU Summit Talent Pool, Co-Founder & Director

September 2017 – November 2018

Strong Women Strong Girls, Mentor

February 2017 – June 2017

SKILLS

Relative Courseworks: Machine Learning (Master's level), Data Science, Data Mining, Data Visualization, Statistical Computing, Web Application Design and Development, Database Design and Development, Web Security, Web Accessibility, Innovation & Entrepreneurship