

Chelsea (Aiqi) Cui

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EDUCATION

Carnegie Mellon University (CMU), Pittsburgh, PA

May 2020

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

Cumulative GPA: 3.76/4.0

Relevant Coursework: Application Design and Development, Interaction Design and Accessibility Testing, Web Application Security, Database Design and Development, Introduction to Machine Learning, Practical Data Science

SKILLS

Software Development: Ruby on Rails, React, HTML, CSS, JavaScript, Flutter, C, Linux

Data Analytics: Python, SQL, R, Scikit-Learn, Hadoop, Tableau

EXPERIENCE

Handshake, San Francisco, CA

May 2019 – Present

Software Engineer Intern

- Enhanced search performance for student platform job role recommendation using Elasticsearch
- Initiate and lead website accessibility improvements on student platform search UI

CMU School of Computer Science, HCII, Pittsburgh, PA

November 2018 – May 2019

Research Assistant

- Built an interactive dichotomous key for macroinvertebrate identification using HTML and JavaScript
- Conducted educational data mining on website user log data with pattern recognition and clustering algorithm
- Designed and developed an off-line mobile application with React Native (former) and Flutter (updated) to assist volunteers with in-field macroinvertebrates identification

CMU Summit Talent Pool, Pittsburgh, PA

September 2017 – May 2019

Co-Founder & Director

- Led a team of 6 members for the full-stack development of Talent Pool web application with Ruby on Rails
- Supervised and trained 3 members with no backgrounds to master database and web design basics
- Utilized Agile Software Development Lifecycle to manage development sprints

Microsoft, Guangzhou, China

May 2018 – August 2018

Software Engineer Intern

- Implemented a chitchat filter with Scikit-Learn 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

RECENT PROJECTS

Junior Technology Consulting Project, CMU.

May 2019

- Served as the quality assurance lead and developer of the project
- Architected the website to make sure it is sustainable and friendly to non-technical users
- Built the website's backend using Google Script API and PHP to support non-technical admin's daily operation

Web Accessibility Auditing - Healthcare for Everyone, CMU.

May 2019

- Conducted a web accessibility audit for a hospital's website basing on WCAG evaluation methodology
- Reconstructed selected pages of the website to meet WCAG 2.0 Level AA

Predicting House Prices with Machine Learning, CMU.

May 2018

- Developed a ML model with Scikit-Learn to predict house prices in Ames, Iowa using dataset from Kaggle
- Applied statistical skills for data cleansing and feature engineering
- Placed in top 15% on the worldwide leaderboard for final result

E-commerce Web Scraper

March 2018

- Created a web scraper with Scrapy and BeautifulSoup to get all Samsung phone sales information on JD.com
- Self-learned and implemented web driver with Selenium to trigger and collect JavaScript hidden information