Aiqi (Chelsea) 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: 3.77/4.0
Dean's List Honors: Fall2016 – Spring2018
Relevant Coursework: Database Design and Development, Application Design and Development, Practical Data Science, Principles of Imperative Computation, Statistical Computing, Modern Regression, Statistical Inference

EXPERIENCE

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

CMU Summit Talent Pool, Pittsburgh, PA   **September 2017 – Present**
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
- Coordinated biweekly team meetings for progress assessment and tech/design discussion
- Utilized Agile Software Development Lifecycle to manage development sprints

PROJECTS

Predicting House Prices with Machine Learning   **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

Chess Camp Web Application   **May 2018**
- Developed a web application with Ruby on Rails to manage different users' access and camp registrations
- Enhanced the user experience by adding Vue.js and Ajax interactions and enabling API connection

Insight to Cultural Differences through YouTube Trending Videos   **May 2018**
- Analyzed 18900+ lines of trending video data via Pandas to identify watching habits in three countries
- Presented research results by turning data to innovative graphics (e.g. cloud map, heat map) on Tableau

E-commerce Web Scrapper   **March 2018**
- Created a web scrapper 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

Grubhub Database Re-engineering   **April 2017**
- Redesigned conceptual and relational model of the Grubhub database to mock existing functions
- Built physical database model and 10 queries to realize innovative use cases

Prantl's Bakery Website Redesign   **April 2017**
- Improved website visual hierarchy by reorganizing business information based on relativity and importance
- Redesigned the interface and added user-oriented interactions using JavaScript for better user experience

SKILLS

Programming: Python, C, R, SQL, Ruby on Rails, Markdown, React.js, HTML, CSS, LaTex
Technology: Git, Linux, TkInter, Pandas, Hadoop, Scikit-Learn, TensorFlow, Tableau, Visual Studio, MS Office
Languages: English (fluent), Chinese (fluent), Japanese (basic)