

SHUYUAN (SYLVIA) XIAO

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EDUCATION

Harvard University M.S. in Data Science. Coursework in Machine Learning, Statistics, Computer Science	Cambridge, MA Expected: Dec 2020
University of Michigan B.S. in Computer Science. University Honors. James B. Angell Scholar. GPA: 3.9/4.0	Ann Arbor, MI May 2018

WORK EXPERIENCE

CITIC aiBank Corporation – Data Science Intern June - Aug 2019, Beijing, China

- Established an effective evaluation system in team from the beginning to assess the performance of the sales and strategy department, in place of the old KPI system
- Provided advice for developing and selecting new products and retiring outdated products, and supported the advice with data
- Applied SQL and Python to collect and clean data, generated data analysis reports and evaluated the revenue of various products

Overseas Credit – Software Developer Intern June - Aug 2017, Santa Clara, CA

- Implemented a recommendation system and collaborated on designing and building a new web system for car rental business
- Established and polished the authentication system and related functionalities and beautified the appearance of authentication pages

University of Michigan – Teaching Assistant in Java Sept - Dec 2017, Ann Arbor, MI

- Assisted the professor in delivering lectures in Java programming and held regular office hours to support students

RESEARCH AND PROJECTS

Blue Machine Learning Research Team Dec 2016 - Jan 2018

- Collaborated with a team of five on the design and build of a web-based machine learning diagnostic tool for cardiac and neurological disorders, in order to automate and accelerate diagnosis
- Developed the front-end web page for interactively displaying results in both graphical and textual representation

Statistics Online Computational Resource - Big Data Analysis Dec 2016 - Jan 2018

- Implemented a web-based interactive visualization toolbox to input, display, and store large datasets using Javascript, D3, Vega, and Vega-lite
- Built the front-end interface for the visualization toolbox using HTML5 and CoffeeScript

Authorship Attribution Oct 2017

- Implemented a Bernoulli Bayes Classifier to analyze papers and determine the authors based on contents, and evaluate the performance of the classifier using class-conditional entropies of stop words

Content-Aware Image Resizing Nov 2017

- Implemented seam carving algorithm to scale down images by removing the least significant pixels while ensuring images maintain their integrities

Markov Decision Process in Navigating Dec 2017

- Developed the value iteration algorithm to solve Markov Decision Process for an optimal policy for navigation with a map of input environment

SKILLS

Computer Languages:	C/C++, Java, Python, SQL, MATLAB, Haskell, JavaScript, HTML5, CSS, Swift
Techniques :	L ^A T _E X, Unix, Git/Github, R, MongoDB, MIPS, ARMv8