

DAMIN ZHANG

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EDUCATION

University of Massachusetts Amherst

Sep 2015 - May 2019

Bachelor of Science Computer Science

Amherst, MA

GPA: 3.46 / 4.0 (Top 13.5%) | Honors/Awards: Chancellor's Award, Dean's List (Fall 2015, Fall 2016, Spring 2018)

Minor in Mathematics

PROJECT EXPERIENCE

U.S. Ph.D. Computer Science Program Enrollment Bias Analysis

Jan 2019 - May 2019

- Designed and built web crawler to log Ph.D. students' website (**Python**)
- Parsed useful information from the data pulled by the crawler (**JSON**)
- Implemented interactive visualization to allow users to explore the analysis (**D3.js, HTML, CSS**)

U.S. Congress Vote Prediction

Sep 2018 - Dec 2018

- Designed and implemented naïve Bayesian classifier and decision tree classifier (**Python**)
- Resolved issues of precision when multiplying many small-magnitude numbers together by logarithmic transformation.
- Improved accuracy by implementing a pruning algorithm.
- Tested the models with 2017 Congress Vote data, prediction matched 2018 Congress Vote data.

Insurance Quote Auto-update

Feb 2018 - May 2018

- Adapted **Facebook Graph API** to log users' basic information and instant posts. (**Python**)
- Implemented **NoSQL** database to store the users' information and quotes. (**MongoDB**)
- Designed and implemented a responsive website UI by using Bootstrap. (**HTML, CSS, Bootstrap, JavaScript**)

Watch Movie Together

Sep 2018 - Dec 2018

- Executed and contributed to full-stack web development projects, with an emphasis on logic design, front end features, and user interaction
- Designed and implemented templates and front-end code for Django-based app (**HTML, CSS, Django**)
- Assisted in development of back end features in **Python**.

PROFESSIONAL EXPERIENCE

Agriculture Department

Jun 2018 - Sep 2018

Operations Data Analyst

Gongyi, China

The agriculture department organizes and directs the investment in agriculture and related industries.

- Worked at the data analyst department to process large scale data and build computational or mathematical models with agricultural data in the past 5 years (**Python**)
- Improved model accuracy by 10% through Python libraries (numpy, pandas, scikit-learn)
- Applied "**Permutation Importance - Partial Dependence - SHAP**" to help the management team understand the model.
- Built visualizations by matplotlib and seaborn libraries.

UMass Student-run Business Co-op

Mar 2016 - May 2018

Co-Manager

Amherst, MA

The co-op provides catering service on UMass campus, serves as residential area dining common.

- Logged, analyzed, and visualized sales and revenue reports, provide insights on avoiding deficits and maximizing profit
- Improve efficiency by initiating New Shift Schedule and Payroll System projects through analyzing patterns in the past 5 years of business datasets.
- Ranked as one of the top most-profitd co-ops at UMass, nomination of annual Sammy's Best Student Organization Award

SKILLS LIST

- Python, Java
- HTML, CSS, Bootstrap, JavaScript, D3.js, Django
- MATLAB, SQL, PostgreSQL, Scala, MongoDB, Tableau