Dawei Yin

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EDUCATION

BOSTON UNIVERSITY
Boston, MA

MS in Computer Science, concentration in Data Analytics

Expected Jan 2023

- Awards/Honors: Graduate Research Assistantship & Teaching Assistantship.
- GPA: 3.83

BA in Computer Science & Mathematics

May 2021

• Awards/Honors: Dean's List 3 times (spring of 2017, 2019, 2020).

PROFESSIONAL EXPERIENCE

HI-Lab, Boston University

Boston, MA

Research Assistant

Jan 2022 - present

- Implemented 5 clinical study group allocation algorithms, including urn minimization and block randomization.
- Designed and developed a management system for participant allocation utilizing Flask and MongoDB to provide group allocation service for clinical research study.
- Streamlined the participant enrollment process and allowed frictionless integration with other electronic system.

Security Department, Tencent America

Palo Alto, CA

Cybersecurity Intern

June 2022 – Aug 2022

- Implemented security & compliance tools utilizing Wagtail CMS, provided the compliance team a simplified process for screening security risks.
- Contributed to company internal knowledge-based system and assisted other employees with security processes such as email migration.

Technology Department, PING AN BANK CO., LTD.

Shenzhen, China

Software Engineering Intern

June 2020 – Sep 2020

- Created a web-crawling application utilizing scrapy to automatically migrate company internal records to long-term storage.
- Constructed a development tool to automatically integrate the crawled data into Django CMS.

PROJECTS

Real Estate Data mining Project

Boston University

Team Lead & Researcher

Sep 2021 - Dec 2021

- Led a team of 3 to research the relationship between property values, physical features and land value in Boston in the recent 10-year.
- Assessed 6 popular Data Mining models in R and Weka, including Random Forest and Decision Tree, for investigating the leading factors behind such relationship.
- Built the final model and achieved a 10% accuracy improvement on relative property value prediction, utilizing feature selection, data preprocessing, and adaptive boosting method.

Kaggle Machine Learning Competition

Nov 2020 - Dec 2020

Individual Participant

- Participated in the Kaggle competition for supervised and semi-supervised plant image classification, and placed 8th out of 70 participants.
- Designed a deep learning model by utilizing transfer learning of VGG16 in TensorFlow and achieved more than 80% accuracy.
- Utilized BU Shared-Computing-Cluster (SCC) to reduce model training time.

Server Queuing Simulator

Sep 2020 - Nov 2020

Researcher & Developer

- Constructed a discrete event simulator in Java to mimic various queuing models, including M/M/N and M/M/1/k, as well as different scheduling schemes, such as FCFS, SJF, and RR.
- Provided a method for analyzing the models with non-statistically significant distribution event time and time-dependent service time.

Population Migration Modeling Project

May 2019 - Jun 2019

Researcher & Developer

- Led a team of 4 to investigate the population movement between city and suburb from 1995 to 2000 in China.
- Modeled the population Dynamics in more than 10 Chinese provinces utilizing MATLAB with matrix population modeling technique.

SKILLS

Languages: Python, R, Java, JavaScript, SQL, C++, Haskell, HTML/CSS, MATLAB

Tools: Git, Postman, MongoDB, GCP, Weka, Spark RDD, Hadoop, Jira

Framework: Django, Flask, Scrapy, Wagtail, TensorFlow