Fanxing Yu

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Summary

Rising engineer with background in Computer Science and Statistics, currently seeking internship in Software Engineering for 2022 Summer and Fall. Experience with web development, object-oriented programming, optimize solutions, data structures. Think through problems from both business and technical perspectives.

Education

Northeastern University   **Expected Graduation: June 2023**
Master of Science, Computer Science GPA: 4.0/4.0   *Seattle, WA*

University of California, Los Angeles   **Jun 2018 - Apr 2020**
Bachelor of Science, Statistics GPA: 3.602/4.0   *Los Angeles, CA*

Toolbox

Languages: Java, JavaScript, Python, Java, C, C++, SQL, R
Tools: NodeJS, MySql, Git, TensorFlow
In process learning tools: Angular, ReactJS, AWS Cloud Services(Basic)

Project Experience

Productivity Chrome Extension | *JavaScript, HTML, CSS*   **Aug 2021**
- Designed and built an extension that allows users to set up screen time of currently focused page and lifting user's efficiency
- Designed and implemented user-friendly interface using HTML and CSS
- Implemented functionality to give users options when the time is up using JavaScript
- Utilized asynchronous system that allows the request sent from interface and to be processed in the background

TODO Application | *Java, Gradle, Git*   **Jun 2021**
- Designed and built a command-line TODO application with MV* architecture, allow user to add and track status
- Developed and executed unit testing to evaluate application quality using JUnit4 and Gradle tools
- Improved modularity and manageability for collaborating with teammate on Git

UCLA-Extension Enrollment Project | *SQL,R*   **Jan 2020**
- Integrated and analyzed data from optimized data collections to make recommendations using R for improving student enrollment, and resulted in enrollment rate increase of 23% in 2020 Spring
- Implemented database queries using SQL to retrieve data relevant to client request
- Interpret and translate analytic outputs into insights
- Established strong and effective working relationship with clients and internal team

Sale Price of Houses in Iowa Forecasting Project, Kaggle Competition | *Python,R*   **Jan 2020**
- Built prediction model using Machine learning algorithms, estimate the test error of the model using K-fold cross validation
- Achieved 0.942 coefficient of determination on test data

Research Experience

UCLA ScAi Lab   **Jun 2020 - Dec 2020**
Research Assistant   *Los Angeles, CA*
- Applied BERT pre-trained model for extracting semantic relations from 8 million tweets per week related to COVID-19, increased the f1 score from 0.492 to 0.762
- Utilized weak-supervision methods using Snorkel for avoiding the need of manually labeling data, decreased the cost to manually label 5 million data

Statistics Department at UCLA   **Jan 2020- Mar 2020**
Research Assistant   *Los Angeles, CA*
- Heavily utilized deep Learning algorithm such as ConvNets to analyze vegetable images using Python and TensorFlow
- Achieved 0.94 of accuracy on test data

Award/Leadership

ASA DataFest at UCLA   **Apr 2019**
Leader
- Led team of five people to participate the competition, and won the **finalist for best insight award**
- Chose to work with diverse team members to have diversity in opinions and problem-solving
- Prepared scripts for data pre-processing and machine learning to help save time
- Visualized and presented result in the final conference