Lynsey Liu

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Skills

Programming Languages

Java, C#, C++, C, Python, SQL, JavaScript, HTML, CSS

Frameworks & Libraries

PyTorch, ONNX, OpenCV, Pandas, PySpark

Experience

Microsoft – Software Engineer

May 2019 – Present

- Created label pre-processing and model benchmarking pipelines for first release of Custom Forms, an Azure Cognitive Services API for automating information extraction from structured documents
- Developed production version of pre-processing pipeline, ONNX model inference, and post-processing inference output to API output for Custom Document, a BERT-based deep learning model for higher accuracy information extraction from both structured and unstructured documents
- Worked with research team to evaluate prototypes based on customer requirements and turn models into production services

Amazon – Software Engineering Intern

June 2018 – September 2018

- Made large amounts of JSON data usable for fast data analysis/modeling for the Amazon Robotics CV/ML team by creating an ETL pipeline using AWS Glue, Lambda, CloudWatch, and Athena for real-time processing of fulfillment center data
- Developed internal Python library for fast programmatic querying of the processed data and loading for analysis with PySpark and Pandas

University of Washington – Undergraduate Research Assistant

January 2016 – May 2019

- Designed and conducted experiments for effective crowdsourcing workflow to gather adversarial data targeting weaknesses of state-of-the-art question-answering models
- Full-stack development of crowdsourcing workflow tool including interface design, data post-processing, and automated result analysis

Microsoft – Software Engineering Intern

June 2016 – September 2016, June 2017 – September 2017

- Integrated data from Cosmos to produce an analytics dashboard for Azure Enterprise Billing that visualizes the life-cycle of each customer charge and surfaces irregularities in the billing process
- Developed internal APIs and data analysis tools for Universal Store Azure Subscriptions team

Projects

TL;DR: Automatic summarization of text-based conversation

Code: github.com/viterbi-or-not-to-be, **Blog:** medium.com/@viterbi.or.not

- Natural language processing model trained on email and chat data to generate summaries for text-based conversations

In My Skin?: Computer vision for skin lesion classification

Code: github.com/lynseyliu/in-my-skin

- PyTorch convolutional neural network trained on skin lesion images to preliminarily classify legions as benign or malignant

Education

UNIVERSITY OF WASHINGTON (2015-2019)

B.S. in Computer Science, GPA 3.53