Raymond Yoo

Amazon Software Engineer II — Rutgers University B.S. CS Honors Track

Personal Site + Portfolio: raymondyoo.com

About Me

Technical Skills: LLMs, LangChain, Spark, SQL, Big Data, ML Ops, AWS SageMaker, ECS, lambda, EMR

Web & Mobile: HTML/CSS/vanilla Javascript, NodeJS, ReactJs, Java Spring

Languages: Python, Java, Javascript, Haskell, C, Swift

Interests: Music, AI, Math, Mental Health, Philosophy, Reading Classics

Work Experience

Amazon NYC (Current)

- Software Engineer II

- Developing big data pipelines for ML recommendation services running spark on EMR.

- Productionizing ML ETLs that applied scientists on the team create using spark SQL, EMR, Redshift, lambda, CDK, and SageMaker.
- Working on a 100+ API service with a ReactJS frontend that saves account managers thousands of hours a year in creating managed service advertising campaigns.

Amazon NYC (Mar 2022 - Dec 2023)

- Software Engineer I

- full stack web dev: React, Redux, SQL + NoSQL, AWS, Redshift, EMR, data pipelines, Java backend

- CI/CD using internal tools, git, REST, Agile

Amazon NYC (Summer 2021)

- Software Engineer Intern

Adventure Co. Remote (Summer 2020)

- Al/Web Intern

- Analyzed audio data both traditionally and after converting audio data into spikes (event-based data) forthe use of spiking neural networks for classification
- Collaborated in developing a webpage game using React, based on music and emojis

Rutgers University (Computational Brain Lab + Machine Learning Lab)

Advisor: Konstantinos Michmizos and Sungjin Ahn

Piscataway, NJ (Jan 2020-Dec 2020)

- Undergraduate Research Assistant ML, Deep Learning, Robotics, Deep Reinforcement Learning (DRL)
 - Developed several state of the art DRL algorithms with spiking actor networks using PyTorch
 - Wrote baselines for measuring the performance of neuromorphic versions of DRL algorithms
 - Worked on debugging deep learning models in PyTorch in a linux environment
 - Accepted publication at CoRL20 + TMLR22 (see below for link to published paper).

Personal Projects and Hackathons

Guitar Tab Generator

ElectronJS app built that generates guitar tabs based on audio input

Pocket Golf Coach Al

 iOS app built with SwiftUI powered with the GPT Vision API to give feedback on how to improve your golf swing using AI

Algorithmic Trading App

- Wrote a bot to trade stocks in Robinhood using the "Golden Cross" method
- Implemented the GUI using the PyQt5 library in Python
- Fetched live data from the Robinhood API to trade

React Path Finding Visualization App

- Created a visualizer app using React for some standard path finding algorithms to help myself getcomfortable with the topics and to get comfortable with React
- https://optimistic-torvalds-3a6284.netlify.app/

One Shot Learning

- Wrote a housing price predictor using C and the one-shot learning algorithm

HackDSC

- Worked with my friend remotely to develop an iOS app that only shows good news to lift the spirits
 ofpeople who are going through a hard time during the pandemic
 - I worked on the ML model for sentiment analysis using swift and CoreML and helped with UI code

Check my personal website for more projects I've worked on!

Education and Honors

Rutgers University New Brunswick

New Brunswick, NJ (2018-Present)

- GPA: 3.73
- Publications: https://arxiv.org/pdf/2010.09635.pdf + https://openreview.net/pdf?id=ZPBJPGX3Bz