Carter Perkins

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Education

New York University Sep 2021 – May 2023

Master of Science in Computer Science

University of Oregon Sep 2017 – Jun 2021

Bachelor of Science (GPA: 3.62)

Double Major: Computer & Information Science (Departmental Honors); Mathematics

Thesis Title: *Ranking Cryptocurrency Exchanges by Trustworthiness* (Advisor: Jun Li)

Experience

High-Performance Computing Lab, University of Oregon Eugene, OR

Undergraduate Researcher Aug 2020 - Sep 2021

- Trained a seq2seq transformer for translating regular expressions into English phrases by writing a parser in PLY and using libraries such as scikit-learn and transformers.
- Built MySQL database to handle storing of extreme-scale application software Git repositories, issues, pull requests, and event activity history via Django, GraphQL, and REST APIs.
- Filtered from 40,000 emails to 800 containing PETSc stack traces and utilized keyword pattern recognition to tag emails.

Lowd Group, University of Oregon Eugene, OR

Undergraduate Researcher Sep 2020 - Jun 2021

- Trained a multi-class RoBERTa sentiment model for subjective climate change tweets with 83% accuracy using PyTorch and transformers.
- Generated adversarial attacks against classification models using the TextAttack, OpenAttack, and scikit-learn libraries.

Computer & Information Science Department, University of Oregon Eugene, OR

Learning Assistant Mar 2021 - Jun 2021

- Assisted graduate students in learning data science topics such as: data wrangling, KNN, Naive Bayes, and neural networks by answering in class questions and holding weekly office hours.

Center for Cyber Security and Privacy, University of Oregon Eugene, OR

Undergraduate Researcher Jun 2019 - Jun 2020

- Created a decentralized online social network system by designing a modular software architecture using tools such as IPFS, WebRTC, and Django.
- Implemented a task management system to optimize middleware module interactions by developing asynchronous threads for core tasks.
- Standardized deployment environment by wrapping the application in a multi-container Docker system consisting of Python, Node.js, and PostgreSQL images.

Skills

Languages: Python · C · C++ · MySQL · Java

Frameworks and Tools: Git · Subversion · Docker · Pandas · Matplotlib · Numpy · Scikit-learn · PyTorch