

# Carter Perkins

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## EDUCATION

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<b>New York University</b>	Sep 2021 – May 2023
<i>Master of Science in Computer Science</i>	
Focus Areas: Machine Learning, Deep Learning, and Natural Language Processing	
<b>University of Oregon</b>	Sep 2017 – Jun 2021
<i>Bachelor of Science</i> (GPA: 3.62)	
Double Major: Computer & Information Science (Departmental Honors); Mathematics	
Thesis Title: <i>Ranking Cryptocurrency Exchanges by Trustworthiness</i> (Advisor: Jun Li)	

## EXPERIENCE

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<b>Lowd Group, University of Oregon</b>	Eugene, OR
<i>Undergraduate Researcher</i>	Sep 2020 - Present
<ul style="list-style-type: none"><li>Trained a multi-class RoBERTa sentiment model for subjective climate change tweets with 83% accuracy using PyTorch and transformers.</li><li>Generated adversarial attacks against classification models using the TextAttack, OpenAttack, and scikit-learn libraries.</li></ul>	
<b>High-Performance Computing Lab, University of Oregon</b>	Eugene, OR
<i>Undergraduate Researcher</i>	Aug 2020 - Present
<ul style="list-style-type: none"><li>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.</li><li>Built MySQL database to handle storing of extreme-scale application software Git repositories, issues, pull requests, and event activity history via Django.</li><li>Filtered from 40,000 emails to 800 containing PETSc stack traces and utilized keyword pattern recognition to tag emails.</li></ul>	
<b>Computer &amp; Information Science Department, University of Oregon</b>	Eugene, OR
<i>Learning Assistant</i>	Mar 2021 - Jun 2021
<ul style="list-style-type: none"><li>Assisted graduate students in learning data science topics such as: data wrangling, KNN, Naive Bayes, and neural networks by answering in question class and holding weekly office hours.</li></ul>	
<b>Center for Cyber Security and Privacy, University of Oregon</b>	Eugene, OR
<i>Undergraduate Researcher</i>	Jun 2019 - Jun 2020
<ul style="list-style-type: none"><li>Created a decentralized online social network system by designing a modular software architecture using tools such as IPFS, WebRTC, and Django.</li><li>Implemented a task management system to optimize middleware module interactions by developing asynchronous threads for core tasks.</li><li>Standardized deployment environment by wrapping the application in a multi-container Docker system consisting of Python, Node.js, and PostgreSQL images.</li></ul>	

## PROJECTS

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<b>Web-based Geospatial Data Collector and COVID-19 Smart Planning</b>	
<ul style="list-style-type: none"><li>Along with five other students, built a web-based geospatial data collection service for participants in order to build a class-wide aggregate dataset mapping pedestrian traffic during quarantine. From this, we built a second project where we created a smart scheduling and location query service to find the most optimal time to visit a location based on the predicted number of pedestrians in the area. Built with Python, MySQL, jQuery, and Google Maps API. Both projects earned the top score in the class.</li></ul>	

## SKILLS

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

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