

ROHIT JAGGA

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EDUCATION

University of Pennsylvania

Expected May 2023

Dual-Degree Program from Penn Engineering & The Wharton School

Philadelphia, PA

- Penn Engineering: B.S.E. in Computer Science
- The Wharton School: B.S. in Economics, concentrations in Finance, Statistics
- Relevant Courses: Data Structures & Algorithms, Computer Systems, Scalable & Cloud Computing, Big Data Analytics, Artificial Intelligence in Business/Finance, Probability, Statistical Inference, Advanced Linear Algebra

EXPERIENCE

University of Pennsylvania

Aug 2021 – Present

Teaching Assistant for CIS 545 - Big Data Analytics

Philadelphia, PA

- Hold weekly office hours to assist students with lecture material, clarify HW questions, and guide student final projects.
- Develop, update, and grade homework assignments on graduate-level data science concepts from Pandas, Spark EMR clusters, SQL queries, data preprocessing, clustering/classification, regression, and neural networks.

OffWeGo

June 2021 – Aug 2021

Software Engineer Intern

Remote

- Developed a groupchat SMS feature using Twilio API to enable trip-based group messaging for OffWeGo mobile users.
- Analyzed and modeled the risk associated with OffWeGo student travelers based on peer surveys, response rates to check-in requests, etc. from an internal student management database using Python, JavaScript, PostgreSQL.
- Made frontend and backend modifications to the company website using React, Django, PostgreSQL, and AWS.

Children's Hospital of Philadelphia

May 2021 – Aug 2021

Machine Learning Research Intern

Philadelphia, PA

- Developed an end-to-end PyTorch pipeline for Unsupervised Contrastive Learning on frontal chest X-ray images.
- Applied data augmentations proposed by Chen et al. (SimCLR) to chest X-ray images for task-specific training of the SimCLR model, which was used for predicting Acute Respiratory Distress Syndrome (ARDS) diagnoses.

Art of Problem Solving, Inc.

Mar 2020 – Aug 2021

Teaching Assistant, Grader (part-time)

Remote

- Graded student-written proofs and assisted in teaching courses in introductory/intermediate programming (Python), combinatorics, number theory, geometry, algebra, and contest math preparation at the advanced high school level.

PROJECTS & ACTIVITIES

Developer, UPenn Student Federal Credit Union | React, Node.js, AWS S3/EC2, Git

Feb 2021 - Present

- Work with a group of students to implement website changes, enhance the online banking experience, and perform customer analytics for a \$7 million student-run credit union that serves 500+ customers and administrators.
- Redesign key website features using JavaScript and React for the customer-facing credit-builder application forms.

NCVPS Tutoring Analytics | Python, Flask, HTML, CSS, JavaScript, jQuery

June 2017 – May 2020

- Developed a full-stack web application that provides tutoring hours analytics for 100+ NCVPS students and teachers.
- Used HTML/CSS, JavaScript, and Flask (Python) to design the web app, and utilized jQuery and Google Apps Script to fetch data and update data visualizations in real-time from the organization's tutoring hours database.

Credit Suisse Financial Modeling project | PyTorch, scikit-learn, Python, Git

Feb 2020 – Mar 2020

- Led a group of students in a financial modeling project that applied machine learning methods for interpolating volatility surfaces on options data, presented our results to financial professionals at the Credit Suisse Raleigh, NC office.
- Tested the viability of Transfer Learning, Random Forest regression, Gradient-Boosted regression, etc.

TECHNICAL SKILLS

Languages:	Java, Python, SQL, JavaScript, OCaml, HTML/CSS, R
Frameworks/Libraries:	React, Node.js, Flask, React Native, Expo, JUnit
Technologies:	Git, Spark, Amazon Web Services (AWS) EC2/EMR, LaTeX
Data Science/ML:	PyTorch, TensorFlow, PyTorch Lightning, Spark MLlib, pandas, scikit-learn