Jeremy Jang

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Education

M.S. Computer Science — *University of Southern California - Viterbi School of Engineering*
Artificial Intelligence Specialty — *August 2023 - Present*

- *Anticipated Graduation: Fall 2024*
- *Coursework: Foundations of Artificial Intelligence, Machine Learning*

B.S. Computer Science — *New York University - Tandon School of Engineering*
Minor in Mathematics — *September 2019 - May 2023*

- *Magna Cum Laude, Dean's List (2019-2023), Honors Scholar, GPA: 3.822/4.00*
- *Coursework: Linear/Nonlinear Optimization, Visualization for Machine Learning, Data Science, Computer Graphics, Cryptography*

Work Experience

Amazon - Alexa For Everyone — *September 2022 - December 2022*
Software Engineer Intern — *Arlington, Virginia*

- Improved the accessibility for the Show & Tell feature on Alexa multimodal devices in **Java**
- Used **S3 Bucket** and **AWS Rekognition** to design and test accessibility features
- Presented intern project to Director of Alexa For Everyone (Matthew Kumin)

Research/Projects

CaptionCraft: AI-Powered Image Captioning for Social Media — *August 2023 - Present*
Project for Graduate ML class (CSCI - 567) — *Los Angeles, California*

- Focusing on enhancing caption creativity to increase a social media post's "likeability"
- Analyzing ∼1.6 million Instagram influencer and brand posts to cluster successful post types and to train a caption-generating language model

Independent Study: Patterns in Programming — *May 2022 - August 2023*
Research with Professor Darryl Reeves — *Brooklyn, New York*

- Using ML to analyze learning patterns from students (∼200 students) Intro to Programming assignments
- Automated the data pipeline (pre-processing, cleaning, and storing in a **MongoDB database**) in **Python**

NYU Artificial Intelligence for Scientific Research (AiFSR) — *March 2022 - May 2022*
Collaboration with Adamas Nanotechnologies — *Brooklyn, New York*

- Given a mixture of nanodiamonds, use ML to estimate the proportions used to construct said mixture
- Implemented a model using a development stack of **Python**, **NumPy**, and **Sklearn** to fit spectra to mixtures (with incomplete/limited data) and investigated the various effects of adding noise

Certification

UC Berkeley Extended Program — *August 2020 - February 2021*
Data Analytics Bootcamp — *Remote/Berkeley, California*

- 6-month program in Data Science at UC Berkeley involving **SQL**, utilizing APIs, and **ML**

Technical skills

Programming Languages	C/C++, Java, Javascript, Julia, LaTeX, Python, PostgreSQL, Scala
Technologies	Android Studio, Docker, Flask, IntelliJ, Jupyter, NumPy, Pandas, PyTorch, Sklearn, Tableau