

Dear sir or madam,

Thank you for taking the time for me.

I am a junior studying computer science and economics. I love diving into what I've learned and organizing my thoughts, as much as I am driven to apply my knowledge in real-life problem-solving and explore something new. Your opening is the opportunity I am looking for.

From a pure technical background perspective, I have taken database, algorithms, artificial intelligence, and general programming courses (and operating systems in the upcoming Spring semester). Things like building and making queries into the database (mySQL), and experimenting with machine learning techniques and libraries (like Keras, Tensorflow, and Pytorch) for building neural networks for the classification of datasets would be something I have implemented before. Throughout my CS courses, I have also gained some experience building python and java projects under the Linux operating system and command-line interface.

Besides computer science, I have some knowledge of econometrics and economic forecasting. Passionate for data analysis, I am very interested in and currently working on using regression models and statistical theories to analyze and make predictions with time series analysis (working with both Stata and Python). One of my realized forecasts on the unemployment rate is relatively acceptable with 6.4% realized vs. 6.6% predicted—and I am also going in-depth in data analysis as well as machine learning in the upcoming semester.

In other words, being able to work with things like data, data management, and predicting player actions are exactly what I am looking for.

Many thanks for patiently reading through my letter, and happy 2021!

Sincerely,

Rosalie Cai