

Dear Hiring Manager,

I am writing to express my interest in the Software Engineer role at your company. With my educational background in computer science and business analytics, combined with my experience in software engineering and data analysis, I am confident that I possess the necessary skills to succeed in this role.

My academic projects demonstrate my technical expertise in programming languages such as Python, Java, and JavaScript. In particular, my MiniTorch project showcases my ability to implement backpropagation algorithms and perform auto differentiation in the tensor framework. Additionally, my experience building the Instant Dictionary Web Application and API demonstrates my proficiency in developing front-end web UIs, designing APIs, and controlling versions using Git and GitHub.

As a Software Engineer at Astoria AI, I designed and built the minimum viable product for job matching and finding. I also created a web crawler that scraped over 300,000 job listings from various platforms and implemented a job dashboard on the front-end using HTML, CSS, and JavaScript. Additionally, I developed an ML System that performed pre-processing, similarity measurement, matching, model tuning, and scalability.

In my previous role as a Research Assistant with Professor Yufeng Huang, I scraped 90,000+ merchandise attributes data from Walmart.com using Beautiful Soup and Selenium package in Python. I also recategorized commodities using the GloVe package in Python for NLP, cleaned and managed the sample scraped from the internet using SQL.

Furthermore, my experience as a Branding/Event Planning/Shareholder at A Plus Education has taught me the importance of cost budgeting, forecasting the financial performance of a company, and negotiating contracts with stakeholders to boost sales.

I possess technical skills in a wide range of programming languages, tools, and libraries, including AWS, Git, MySQL, Hadoop, Hive, Spark, Tableau, Figma, JSON, Scikit-Learn, Pandas, NumPy, SciPy, Matplotlib, Beautiful Soup, Selenium, RShiny, and gganimate.

I am eager to contribute my skills and experience to your team and look forward to discussing my qualifications further.

Thank you for considering my application.

Sincerely,
Tingkang Zhao