

Sure, here is a professionally formatted cover letter based on the provided resume and job description:

Dear Hiring Manager,

I am writing to express my interest in the Solutions Architect position at Amazon Web Services. As a skilled graduate student with hands-on experience in Python, SQL, and AWS, I am confident that my experience and skills align with the top requirements of the job description.

Key Skills and Qualities:

1. **Cloud Computing:** My experience in developing scalable cloud-based image recognition services using AWS, implementing an advanced auto-scaling algorithm, demonstrates my proficiency in cloud computing.
2. **Data Engineering:** My experience in extracting, analyzing, and visualizing reports from Workday and PeopleSoft in Tableau, and my ability to handle large-scale data ingestion from Amazon S3, transforming and validating schemas, and optimizing performance for fast querying and analytics, showcase my expertise in data engineering.
3. **Machine Learning:** My experience in leading data cleaning and preprocessing initiatives for the house price prediction project, utilizing Python to handle missing values, outlier detection, and feature engineering, resulting in a model with 20% improved pricing accuracy in a tight timeline, highlights my proficiency in machine learning.
4. **Technical Skills:** My expertise in programming languages such as Python, SQL, and Shell Scripting, and my familiarity with frameworks like PySpark, Flask, Numpy, Pandas, PyTorch, Keras, TensorFlow, Boto3, Scikit-learn, and SQLAlchemy, demonstrates my technical prowess.

Experience and Achievements:

1. **Business and HR Analyst at Arizona State University:** As a Business and HR Analyst, I engineered VBA-embedded Python scripts that automated the manual process of formatting accounts data, achieving a 97.22% reduction in processing time from 12 hours to 20 minutes. I also extracted, analyzed, and visualized reports from Workday and PeopleSoft in Tableau to enhance data-driven decision-making.
2. **Machine Learning Intern at Tequed Labs:** As a Machine Learning Intern, I led data cleaning and preprocessing initiatives for the house price prediction project, util