Cover Letter

Nathan Ashworth: Data Analytics x Real-World Problem Solving

Hi, I'm Nathan Ashworth, a senior at Trinity University in San Antonio and an aspiring data analyst. I've worked on many projects in my time here at Trinity and honed my skills to specialize in data cleaning and modeling.

My main drive as a Senior Business Analytics student isn't just about crunching numbers; it's about using that data to solve meaningful, real-world problems and make a difference. It's the reason I'm drawn to fast-paced environments like a late-stage startup or, ideally, the healthcare sector, where speed and precision matter. You can see this focus in my work on the Allergen Life project, where I engineered the database architecture to help people with food allergies find safer dining options quickly. Whether I'm building predictive models or merging complex datasets, my focus remains on transforming raw information into solutions that can actually make a difference.

I also genuinely care about using my skills to help people. That's why I see healthcare as such a great fit; it's a chance to apply my technical toolkit to challenges that can help real people with real problems. For instance, I once couldn't get allergy shots for 5 months straight because two allergy clinics couldn't communicate with each other. Someone with even a basic level of database understanding could have fixed this problem, but the communication was so jumbled that my name just became another lost number in the system. I would love to be a part of a company that seeks to make others' experiences better than that. My strong proficiency in Python (pandas, Scikit-learn), R, and SQL, along with visualization tools like Power BI and Tableau, is built for solving these kinds of problems.

Here's what I think sets me apart: I'm completely fluent in the current AI landscape. Since I've spent all four years of college immersed in these technologies, I'm extremely apt at leveraging AI and Machine Learning tools to accelerate the analytical process. ChatGPT, Grok, Deepmind, Gemini, etc. - I've used all the big names and even a few smaller ones. This experience in AI lets me quickly uncover non-obvious patterns and insights that older methods might easily miss. I've found that AI is particularly good at feature engineering and thinking out of the box when it comes to fixing bugs - both historically time-consuming ordeals. In my opinion, being able to integrate cutting-edge AI into daily analysis is a huge competitive advantage for any company.

To sum it up, I'm an analyst driven by a strong desire to help others, combining the practical data engineering skills I used for the Allergen Life architecture with strong quantitative rigor. I'm confident that my unique background, which blends my technical aptitude with a desire to contribute to the well-being of all humans, makes me a great contributor to a dynamic and innovative team, whether that's in the healthcare space, a fast-paced startup, or any other company that wants to make a real change in the world.