

Dear Hiring Manager,

With an expected graduation date of May 2025 in Computer Science and Engineering with a minor in Big Data and Mathematics, I am eager to apply my academic background and hands-on experience to contribute effectively to your team.

Through my coursework in Big Data, I have developed a strong foundation in data management, statistical analysis, and data visualization. Courses such as Applied Data Science and Categorical Data Analysis deepened my understanding of data algorithms and analytical techniques. Additionally, classes like Database Design & Implementation and Database Management Systems enhanced my proficiency in SQL, database concepts, and normalization strategies. These academic experiences are complemented by practical projects where I utilized Python and its libraries, such as BeautifulSoup, Matplotlib, and Pandas, to create data-driven applications and analyses.

One notable project involved collaborating in a team of four to create a college campus navigation app that ensures safer travel on campus especially at night. As our Senior Project, we won the Global Impact Award amongst all engineering programs. This project addressed campus safety by enabling users to generate routes, adjust preferences, and report safety concerns in real-time. This gave me valuable experience collaborating effectively in a team under multiple deadlines and working with unfamiliar tools such as Android mobile Emulator and Flutter. Another key project involved developing an NBA offensive analytics dashboard using PowerBI. I scraped data from public sources and leveraged Python and its libraries to clean, analyze, and visualize trends in modern basketball. This dashboard was used to examine common narratives in today's NBA, such as the increase in overall scoring, the sharp rise in three-point shot attempts, and the role of fouls and free throws. By structuring and analyzing the data, I uncovered insights into how the game has evolved, offering a data-driven perspective on the shift toward perimeter shooting and higher-paced offenses.

In addition to my academic and project experience, I have pursued industry-relevant training, including the IBM Data Science Fundamentals with Python and SQL Specialization. Through this program, I gained experience with data science tools, Python libraries, SQL, and statistical techniques such as visualization, hypothesis testing, and regression analysis. As part of this coursework, I scraped and analyzed financial data for Tesla, Amazon, and GameStop, visualizing historical share prices to uncover key insights. Additionally, I completed the IBM Data Engineering Foundations Specialization, which enhanced my expertise in ETL processes, APIs, Pandas, NumPy, SQL queries, and database design. As part of this training, I built an ETL system that scraped financial data from the top 10 banks by market capitalization, converted values into multiple currencies, and stored the results in a SQL database for quarterly reporting.

I am confident that my academic background, hands-on experience, and enthusiasm for learning make me a strong candidate for the company. I look forward to the opportunity to discuss how my skills and experiences align with the needs of your team. Thank you for considering my application. I am available at your convenience for an interview and can be reached at [michaelmunakash@gmail.com](mailto:michaelmunakash@gmail.com). You can also view my portfolio at [michael-munakash-portfolio.vercel.app](https://michael-munakash-portfolio.vercel.app) for more details on my projects and experience. Sincerely,

Michael Munakash