# MRIDUL GUPTA

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Dear Hiring Manager,

I am writing to express my interest in the Developer Summer Intern program at Barclays, as advertised. I am currently pursuing my Bachelor of Science in Computer Science with a completion date in May 2024 and concurrently Master of Science with an anticipated graduation in May 2025 at the Georgia Institute of Technology, holding a GPA of 3.9. Given my extensive educational background, hands-on experience, and passion for innovative solutions, I believe I would be a valuable asset to your dynamic team.

I have garnered experience in multiple programming languages and development tools, including but not limited to Java, C#, Python, C/C++, and Kotlin. During my internship at BerkOne, I played a pivotal role in expediting new hire requests by 65%, utilizing technologies like ASP .NET MVC, MS SQL Server, Bootstrap, and jQuery. Here, I also engineered high-performance Stored Procedures (SPs) and implemented dynamic features for multi-group selection across logins, enhancing resource tracking efficiency by 43%.

Leading an eight-person Agile team at Experimental Flights, I developed a full-stack application rendering real-time drone data, integrating various technologies such as Express.js, Node.js, and Firebase. This experience helped me hone my skills in designing scalable and reliable systems and managing simultaneous simulations efficiently.

I have contributed extensively to academia, serving as a Teaching Assistant at the College of Computing at Georgia Tech. I expanded the question bank by 20%, graded and critiqued numerous student code submissions, and provided mentorship in Database Systems, data structures, algorithms, and Object-Oriented Programming concepts in SQL and Java. My role as an Authentication Methods Researcher added another layer to my experience, allowing me to delve into password security and usability studies, involving extensive data analysis and user-study planning.

Given Barclays' commitment to innovation and technology, I am excited about the prospect of contributing to designing and innovating products using cutting-edge technologies. My experience with various technical environments, including Windows, Linux, NoSQL (Firebase), Docker, and real-time systems, aligns well with the responsibilities listed in the job description. My academic and professional experiences have endowed me with a solid understanding of global markets and finance, preparing me to take on real, impactful work right from the start.

Working at Barclays excites me due to the next-generation workplace environment, fostering connections with passionate colleagues. My commitment to finding a balance between personal and professional responsibilities aligns well with Barclays' flexible and dynamic working environment, and I look forward to contributing to the lively modern spirit of Morristown.

In conclusion, I am eager to bring my technical proficiency, innovative thinking, and passion for computer science to Barclays. I am enthusiastic about the opportunity to work side by side with industry experts, taking on immediate responsibility, and contributing to the success of Barclays.

Thank you for considering my application. I look forward to the opportunity to discuss further how I can contribute to Barclays' ongoing success as a summer intern. Please feel free to contact me at 484-695-7228 or mgupta358@gatech.edu.

Sincerely,

Mridul Gupta
Bachelor of Science in Computer Science (BS/MS)
Georgia Institute of Technology