

LAYKAWN GRITWORKS' CANDIDATE

Graduate Admissions Committee
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Letter of Motivation

Dear Members of the Graduate Admissions Committee,

My motivation to pursue the Master of Science in Computer Science at Georgia Tech stems from a deep commitment to advancing my technical and analytical expertise to address real-world challenges through intelligent computing solutions. From the outset of my academic journey, technology has represented more than a field of study; it has been a medium through which I can build systems that improve efficiency, strengthen security, and create meaningful impact.

I earned my Bachelor of Science in Information Technology from Sikkim Manipal University, where I gained a strong foundation in database systems, software engineering principles, and network architecture. My final year project, designing an interface system for a newspaper agency, was particularly formative. It required translating abstract ideas into a functional solution that improved operational efficiency, sharpening both my technical abilities and problem-solving mindset. That experience confirmed my interest in software systems that integrate reliability, usability, and scalability.

Over the past seven years, my professional journey has allowed me to apply these skills in operationally demanding sectors. As Regional Diesel Manager at Daomays Nigeria Limited, I implemented GPS tracking and analytics that streamlined logistics operations, reducing delivery delays by 20% and achieving 97% on-time compliance. My work at Infravision Limited and iEngineering Limited focused on developing data-driven load optimization schedules, which reduced transportation costs and prevented critical supply outages at telecom sites. These roles demanded strategic thinking, technical adaptability, and a capacity to translate data insights into actionable results. A defining moment came during a telecom infrastructure project, when a cyber vulnerability resulted in a temporary network outage. Leading the response team, I worked to deploy stronger encryption and monitoring tools, restoring system resilience and igniting my determination to develop deeper expertise in cybersecurity and secure software design.

My motivation to join Georgia Tech is shaped by these experiences and a vision for the future. The School of Computer Science is globally recognized for its leadership in advanced computing research and bridging theory with real-world applications. I am particularly drawn to specialisations in cybersecurity, machine learning and scalable data systems, which align with my background and aspirations. Courses such as Network Security (CS 6262) and Machine Learning (CS 7641) will deepen my algorithmic understanding, enhance my software design skills and strengthen my data analytics competence, bridging the gap between my IT foundation and the skills required to address emerging security and operational challenges in critical infrastructure. I am also eager to engage in research under the guidance of Professor Wenke Lee, whose work in information security resonates with my experience in telecom vulnerabilities.

In the long term, I aim to contribute to the development of secure, data-driven solutions in sectors such as telecommunications, logistics, and energy. I envision leading resilient computing systems design, mentoring professionals, and pursuing research at the intersection of cybersecurity and intelligent systems to strengthen infrastructure in developing economies. My Nigerian background and experience in resource-constrained environments will enrich Georgia Tech's collaborative ecosystem, contributing diverse perspectives that foster innovation.

Georgia Tech offers the ideal environment to realize these ambitions through its research culture and emphasis on practical impact. By joining this program, I seek to expand my technical depth while contributing to meaningful advancements in secure and intelligent computing.

Thank you for considering my application. I am eager for the opportunity to bring my experience, passion, and commitment to Georgia Tech's distinguished academic community.

Sincerely,
Laykawn Gritworks' Candidate.