I am a fervent advocate for making knowledge accessible to everyone. As a graduate teaching assistant (GTA) for CS 6200 Graduate Introduction to Operating Systems, I help graduate students master fundamental operating systems paradigms. My experiences have led me to believe that a great teacher ignites a passion for learning that shapes a student's academic journey. In the summer of 2025, I hope to serve as a Peer Academic Teaching Assistant (PATA) at GT Berlin, where I aim to help students strengthen their computer science fundamentals and fully embrace the study abroad experience. I want to make them feel confident in their studies and comfortable adapting to a new environment.

A great example of the lasting impact that a teacher has comes from my undergraduate Operating Systems (OS) course. OS quickly became my favorite course, thanks to the professor and teaching assistants who created a welcoming environment for questions and clearly explained every detail of OS functionality. After taking that class, I implemented a scheduler in a real-time operating system, resulting in a publication. I then joined CERN (The European Organization for Nuclear Research) in Switzerland to implement drivers for their embedded operating systems. This experience made me realize the profound impact an instructional team can have in shaping a student's career trajectory.

Motivated by these experiences, I became a teaching assistant for three computer science courses during my undergraduate studies. Guiding my junior peers and watching them master challenging concepts was deeply rewarding, and it inspired me to continue sharing knowledge through a technical blog on software development for real-time systems. Currently, I'm a GTA for the graduate OS course, where I assist students in mastering advanced OS topics, including concurrency, synchronisation, scheduling, and memory management. These experiences have been invaluable, allowing me not only to help others but also to refine my teaching skills and deepen my understanding.

I'm eager to bring this passion for teaching to GT Berlin, supporting students in foundational courses like **CS 2340: Objects & Design, CS 4400: Introduction to Database Systems, CS 2050: Intro to Discrete Math, and CS 4001: Computing & Society**. These courses lay the groundwork for computer science and will enable the students to conduct research and build impactful computer systems. My industry experience as a backend engineer at Oracle, where I developed and deployed microservices handling millions of API requests monthly, has given me practical insights into object-oriented design and efficient use of large-scale databases and scalable systems. I aim to use this industry experience to bridge the gap between theory and practice, breaking down complex concepts and real-world applications to inspire students. By helping students build a robust foundation, I hope to empower their growth and support them in achieving their goals.

Managing rigorous coursework is challenging on its own, but doing so in a new environment adds an entirely different dimension. When I first moved to Europe to work at CERN, I encountered difficulties adjusting to a new culture, language, and social norms. Having now lived on three continents, I'm eager to help students at GT Berlin feel at home and be someone they can turn to for support as they navigate their new surroundings. I hope to share lessons from my experiences, guide them in making the most of their courses, and ensure they have a fulfilling and enjoyable time in Berlin.

With my background in research, teaching, and cross-cultural experiences, I aim to create a collaborative and supportive environment at GT Berlin in the summer of 2025. My goal is to foster a community where students feel connected, empowered, and supported in their academic and personal growth as they navigate the challenges and excitement of studying abroad.