

Translating real-world systems into software has been one of my greatest interests. In my three years of work experience as a software engineer, I have encountered platforms representing varied physical systems which have taught me to adore the beauty in their complexity. To learn in-depth about systems that enable large platforms, I have decided to pursue a graduate program in computer science and extend my knowledge.

I graduated in Electrical and Electronics Engineering from <university> in 2017. Even though my initial interest was in the working of electrical machines, I grew more interested in automation and software as I took up microprocessors and digital logic courses during my bachelor's. Doing an internship in embedded systems and carrying out my final year thesis project in optimization strengthened my decision to transition into software engineering.

Starting with a large financial platform at <org>, to a social network, and currently a growing web application, I have enjoyed working on each one's share of challenges. Entities such as physical or social systems when translated to software introduce unique problems that often require in-depth computer science knowledge. Throughout my career, I have never missed a chance to ponder upon core computer science concepts that could help me solve an engineering problem - be it using bloom filters to populate unique posts in a social media feed, or implementing queues to offload performance heavy tasks. While self-learning has brought me a long way, a formal graduate program would help me grasp the much needed advanced knowledge and grow in my career.

The most important factors for choosing Georgia Tech's OMSCS are its choice of specializations and the online format. I wish to pursue OMSCS's Computing System specialization as it perfectly caters to my interest in low-level systems and studying how they enable large-scale software platforms. My experience with web applications has inclined me towards learning about their performance and how they scale in a distributed setup. The Advanced OS and the High-Performance Computing courses strongly align with the learning path I wish to pursue in the future.

I am greatly motivated to be a part of the program and have been preparing myself by taking up non-accredited online courses in core computer science. I believe OMSCS would be a stepping stone in my career goal of becoming a software systems architect and satiate my curiosity in computer science.