Statement of Purpose

I am Malavika Nair S, a 24-year-old Bachelor of Technology graduate residing in the Thiruvananthapuram district of Kerala, India. I was born in Thiruvananthapuram, the capital city of Kerala and completed both my schooling and undergraduate studies there. Ever since my childhood, I have been fascinated by the world of computers and technology. My earliest memories include spending a lot of time playing games in my old computer, learning about the hardware components, and then I slowly started to learn about programming languages. As I grew older, this fascination grew into a deep-seated passion and I decided to pursue my bachelors in Computer Science and Engineering which I successfully completed with a decent score.

During my bachelor's degree in Computer Science, I studied a well-rounded curriculum that gave me a strong foundation in both theoretical principles and practical skills. The program included a variety of courses that covered essential topics such as **Programming Fundamentals, Data Structures and Algorithms, Operating Systems, Computer Graphics, Cryptography and Network Security, Computer Architecture and Organization, Database Management Systems, and Object-Oriented Programming (OOP) Concepts** and thus allowed me to develop a good understanding of the field.

In addition to this, I also chose elective courses that aligned with my interests and career goals. These elective courses, such as **Machine Learning, Soft Computing, Cloud Computing, and Web Technologies** allowed me to explore specialized areas within Computer Science and thus enhancing my knowledge and expertise.

As a part of my academic journey I got ample opportunity to undertake projects as they were an integral part of the curriculum. These projects helped me to improve my problem solving skills and ability to successfully manage a project. One noteworthy project I completed was the **IoT based Smart Healthcare System**. This project involved the combination of an intelligent medicine box and a health monitoring system. This multipurpose system enabled the patient to take medicine on time, measurement of vital values and also provided the doctor with the important information about the patient. This project has not only helped me gain knowledge but also increased my interest and passion for application of Computer Science. For the whole duration of the project, I found myself exploring the various aspects like human-machine interaction in IoT applications, real time decision making and data collection in IoT devices. Through this experience, I gained more knowledge and honed my analytical and critical thinking skills while also developing a proficiency in app development and learning more about IoT hardware.

After the completion of my Bachelor's degree, I found myself wanting to explore the ever-evolving field of Computer Science in-depth. It was during this introspective stage that I discovered your esteemed Master's program through DAAD. This program immediately caught my attention, as it coincided with my academic goals.

My academic and professional experiences have helped me to see **Software Systems** as a rapidly evolving domain with significant contributions to different industries. The Master’s degree in **International Software Systems Science** at **University of Bamberg** aligns with my career aspirations, and I am eager to contribute to and learn from the academic community at this prestigious university. What truly sets the Master's program apart for me is the wonderfully designed coursework, particularly the modules of the curriculum. The area of specialization that particularly caught my interest is the **Distributed and Mobile Systems**. The modules like **Software Systems Science, Human Computer Interaction and Cognitive Systems** would provide me with in depth knowledge in different and advanced aspects of Computer Science.

I want to pursue my master’s degree at **University of Bamberg**, **Germany** because of its reputation as an institution of academic excellence with an emphasis on research activities. The opportunity to engage in cutting-edge research projects and collaborate with distinguished faculty members greatly excites me. I decided to choose Germany as my destination for my postgraduate degree due to the high quality education provided by the country without the burden of fees related expenses. By choosing Germany, I aim to make the most of the educational resources, research facilities, and diverse academic community for my academic and personal development. Moreover, the multicultural environment in Germany will not only enhance my learning experience but also provide valuable insights into global perspectives.

Furthermore, after I return back to my country I would like to use the knowledge acquired during my Master's through research projects, workshops, and knowledge-sharing initiatives to actively contribute to the scientific community of my nation. In addition to this, I would like to pursue a successful career as a **Software Engineer**. It would be an honour to be part of your esteemed university, and if given the opportunity to pursue my postgraduate studies in your institution, it would be a milestone in my career and education.

Yours Sincerely,

Malavika Nair S