STATEMENT OF PURPOSE

How hard is it for us to believe that men once made it to outer space with the aid of computers that were far less powerful than many of today's electronic equipments! It simply amazes me how computer technology has evolved over the years paving way for advancement in other sciences. For a naive computer user, who was only aware of the massive advancement in the field, an undergraduate study in computer science introduced various challenges the industry is facing today in its different disciplines. Amongst all, the research going on in the areas of Operating Systems, Parallel and Distributed Systems has inspired me the most.

I completed my Bachelor of Engineering in Computer Science at Sri Jayachamarajendra College of Engineering, one of the renowned institutions in the state of Karnataka, India. My undergraduate study provided a stimulating academic environment and helped me gain substantial knowledge in different areas.

During my junior year I worked on a project, "Implementation of Page Replacement Algorithms". This project helped me realize the significance of memory management, a key function of any Operating System and the need for strategies beyond conventional algorithms in identifying pages that will be referenced soon, so that they can be loaded into memory in advance before they are actually referenced.

My final year project, "An Empirical Approach to Classify English Web Pages", which classified a web page as written in American or British English, introduced me to another discipline in Computer Science, Natural Language Processing (NLP). The system performed classification using NLP tasks like parsing, tokenization, text segmentation and part-of-speech tagging. This project strengthened my interest in Java and exposed me to the challenges involved in implementing various NLP tasks.

After my undergraduate study, I have been working for Oracle India Private Limited (erstwhile Sun Microsystems) for around 1.5 years. My team is primarily engaged in performance engineering of applications on Solaris Operating System and Oracle Hardware, which includes optimization of hardware resources and tuning of operating system and network parameters. I have been involved in the development and upkeep of "Oracle Preflight Application Checker" tool, which checks the readiness of applications for a particular version of Solaris and the "Oracle Performance Advisor" tool, which suggests performance related changes that can be done to an application. My industrial experience has enhanced my perception of the systems field and has motivated me to delve deeper.

One of the prestigious universities in the United States, with a great amount of research being carried out, the University of California, Riverside has been my choice to pursue graduate studies. I am inspired by the work of Dr. Laxmi N. Bhuyan in the field of parallel and distributed computing. The research undertaken in his publication, "Maintaining Data Consistency in Structured P2P Systems" closely aligns with my interest. It would be a privilege to work on such projects which focus on bringing a right balance between consistency and availability in P2P systems for mutable contents. Given an opportunity to be a part of the diverse UCR student community, I would concentrate my efforts to sharpen my skills in the systems discipline and contribute to the research at your university.

After my graduate studies, I wish to come back to India and pursue a career in the line of research and teaching to best utilize the knowledge I would have gained from the program. I believe that a master's degree in Computer Science from your esteemed university will help me achieve my goals.