Background:
I have worked for 3 years in IBM Rational on a Runtime analysis tool PurifyPlus. I was responsible for handling PurifyPlus on AIX for Power PC. PurifyPlus consists of three products: Purify, Quantify, Purecoverage. Purify is used to track down memory access related errors at runtime. Quantify helps identify performance bottlenecks in your program. PureCoverage deals with code coverage issues. Before working for IBM, I completed my graduation from Visvesvaraya Technological University, Bangalore in 2006.

Current Work:
Currently I am working in Computer Science Research Laboratory at Department Of Computer Science, Virginia Tech under Dr. Srinidhi Vardarajan as a research assistant. My work involves implementing a framework which an take advantage of both threads and processes. With the help of this framework users will be able to specify which global variables the threads wish to share and for which ones each one of the thread wishes to maintain a private copy. The user can also specify if a particular thread wishes to share a particular variable with another specified thread. All of these scenarios can be modified at run time.

As part of my curriculum I have done a project which involved porting of a application to GPGPU using Cuda(A Framework provided by NVIDIA). We achieved a speedup of of 2X compared to the normal serial execution on CPU.

I have taken courses on Advanced Parallel Computing, Advanced Operating System, Advanced Networking and have a good understanding of MPI and OpenMP.

Currently I am looking for internship positions for Summer 2010.
Sincerly,
shankha banerjee