

KUNDAN SEN

22 Willow Avenue,
Iselin, NJ 08830

Cell: (732) 470-1199
Work: (212) 816-1361

OBJECTIVE

A challenging position in software development, using C/C++/Java.

EDUCATION

1. Rutgers, The State University of New Jersey: MS in Electrical and Computer Engineering, October 2001 (3.82/4.00)
2. Indian Institute of Technology, Kharagpur, India: B.Tech in Electrical Engineering, June 1998 (3.05/4.00)

RELEVANT SKILLS

1. Hardware: Good understanding of RISC architecture, programming the 8085 microprocessor.
2. Platforms (OS): Unix workstations- SGI Onyx, Octane, O2(IRIX), Sun (Solaris); MS Windows
3. Programming: Excellent C/C++/Java programming skills. Wide experience in graphics programming, OpenGL, Unix systems programming, Network programming, TCP/IP, Sockets, Tcl/Tk, Swing GUI design, Rational Rose, Sybase, UML, HTTP and CORBA. Strong background in numerical methods.
4. General: Internet and WWW tools, system utilities, high performance data structures and algorithms.

PROJECT WORK

1. Implementation of secure channel (SSH) kernel-level router for Linux. Techniques to build secure systems <http://cereal.rutgers.edu/~ksen/index.html>. Spring 2000.
2. MS Thesis work: Design and implementation of an animation/ visualization system for massive datasets (volumes). <http://www.caip.rutgers.edu/~ksen/work/index.html>.
3. 'VoIDE': Visualization over Internetworked Distributed Environments – client-server component-based visualization program, using Java client – C++/Tcl-Tk server – vtk graphics pipeline. <http://www.caip.rutgers.edu/~gagvani/java/VoideHelp.html>
4. Implementation of Niblack's *2D Skeletonization* and Lorensen's *Marching Cubes* algorithms.
5. Senior year project: "Load forecasting for an urban power grid" – using SCADA, parameter estimation, singular value decomposition, and expert systems.

WORK EXPERIENCE

1. Programmer Analyst, Salomon Smith Barney, Securities Lending Systems Development: Develop software required for the securities lending trading floor. Projects completed include real time trading software (Java/CORBA/Sybase), trade management applications (Java/CORBA), web-based GUIs (Servlets/JRun/JSP/CGI/Perl), user-driven and batch reports (Actuate/Sybase), bug tracking systems (MySQL/PHP), and support of legacy applications (C/Motif/Scripts). (since September 2000).
2. Graduate Assistant, Laboratory for Visiometrics and Modeling, Rutgers Univ.: Design and implementation of advanced algorithms for scientific visualization. Volume animation of the visible human (January 1999 – September 2000).
3. Software Engineer, Vedika International Private Limited. Worked in client implementation of web-based accounting package, 'FactFire', using Java front end and CORBA link to C++ back end: <http://www.factfire.com> (June 1998 – December 1998)
4. Vocational Trainee, Development Consultants Private Limited. Design of electrical substation single line diagrams and protection schemes, and software to automate and optimize the process (Summer 1997).

RELEVANT COURSES

Operating Systems, Numerical Methods, Computer Networking, Design and Analysis of Data Structures and Algorithms, Computer Architecture, Software Engineering, Microprocessors (Undergraduate), Computer Graphics, and Machine Vision.