

PRASANNA VIGNESH V GANESAN

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OBJECTIVE

Seeking a full time position beginning Jan – Feb 2004. Interests include software architectures for distributed systems, middleware systems, architectures for ubiquitous and pervasive computing systems and related networking applications.

EDUCATION

Aug. 2002 – Feb. 2004 (Expected) Carnegie Mellon University, Pittsburgh, PA

- Master of Information Networking, Information Networking Institute, Department of Electrical and Computer Engineering.

Aug 1998 – May 2002 Madras University, Chennai, India

- Bachelor of Technology in Information Technology, at Sri Venkateswara College of Engineering.

SKILL SETS

- *Programming:* C, C++, Java, SQL, XScale Assembly, Intel x86 Family, UML, VBScript, PHP, Perl.
- *Platforms/ Architectures:* Unix, Linux, Windows 95/98/2000/XP, ARM-XScale, AFS.
- *Software:* Visual Studio 6, MATLAB, ARM Development Suite, SunOne Java IDE, Microsoft Office Suite.
- *Protocols :* TCP/IP, HTTP, IEEE 802.x, MPLS, ATM.

WORK EXPERIENCE

May 2003 – August 2003 Summer Intern – Aerospace Engineering Systems [Visual C++, TAO/ACE, Java, OPNET]
Honeywell Technology Centre, Minneapolis

- Worked on providing HTC with an in-house implementation of the Fault Tolerant CORBA specification using TAO [The ACE ORB] and ACE [The Adaptive Communication Environment].
- Researched current advances in the area of computational reflection, and its application to real-time multi-agent systems. Managed a team to propose an implementation to be used in future proposals from HTC.
- Worked on the preliminary stages of the analysis of handover algorithms and physical layer issues in airborne communication, to be used in the HTC-AES VDL (Very high frequency Data Link) MODE 2 program.

PROJECTS

Sept 2003 – present Real Time Multimedia Lab, CMU [C,C++, Java]
■ Working on the integration of RTML's QRAM (QoS Based Resource Allocation Model) with Time Weaver, a model based design time framework for real-time embedded systems. Work leading to Masters thesis in Information Networking.

Sept 2003 – present Intel Research Lab, Pittsburgh [.Net, XML, CODA FS, Linux, VMWare WS]
■ Working on providing context awareness and prediction of user location to the architecture of the Internet Suspend and Resume project. Work involves interaction with the CODA file system and VMWare workstations.

Jan 2003 – May 2003 Distributed Systems – Project Hydra [Java, CORBA]
■ Was part of 5 member team that implemented a distributed, fault tolerant framework based on the OMG FT-CORBA specifications and the Sun Java ORB. Performed analysis of trade-offs using different replication strategies, recovery time and message traffic using this framework.

Jan 2003 – May 2003 Broadband Networks – GridGen [Linux, C, Globus API, OPNET]
■ Worked on an implementation of a dynamic node discovery protocol for open grid platforms, using the Globus Toolkit API. Performed an analysis of the protocol using the OPNET network simulator.

Sept 2002 - Dec 2002 Embedded Systems [C, ARM, XScale Instruction Set]
■ Worked on projects involving the Intel XScale processor, developed major portions of the embedded OS, including interrupt handling, memory management, concurrency, serial I/O and a mini-OS employing real time scheduling and bounded priority inversion protocols.

Sept 2002 – Dec 2002 Telecommunication Networks [C, Linux]
■ Coded a C implementation of the data link layer, providing various ARQ schemes, and analyzed their comparative efficiencies. Implementation also covered initial stages of OSPF on the network layer.

November 2001- April 2002 Thesis, Bachelor of Technology in Information Technology [C, Linux, Matlab]
■ Worked with Prof. Dr. Narayanan Srinivasan and Dr. V Ravichandran, analyzing traffic patterns on IEEE 802.3 networks and developed neural network models, to predict flow of traffic. Work done at *Sri Venkateswara College of Engineering, Chennai, India.*

RELEVANT COURSEWORK

Embedded Systems	Telecommunication Networks	Managerial Economics
Info. Sys. Modeling and UML	Distributed Systems	Broadband Networks
Business Management	Models of Software Systems	Mobile Comp. Sys. And Applications

REFERENCES

Available upon request.