Ivan Van

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School Address:
6330 Main St.
Will Rice College
Houston, TX 77005

Permanent Address:
14551 Beechnut St. #5305
Houston, TX 77083

Education

Rice University, Houston, TX — Expected May 2011
Bachelor of Science - Computer Science
GPA: 3.84 / 4.00

Relevant Coursework

Advanced Object Oriented Programming
Algorithms and Data Structures
Automata and Computability
Computer Security
Computer Game Creation
Computer Systems
Computer Networks
Digital Logic Design
Linear Algebra
Operating Systems
Software Engineering
Discrete Mathematics
Compilers

Technical Skills

Languages: Java, C#/.NET, C, C++, HTML, JSP, Verilog
Applications and Platforms: Eclipse, Visual Studio, Vim, Windows, Linux

Work Experience

Amazon.com, Software Development Engineer Intern - *Summer 2010*
Developed a tracing tool for a critical service supporting the Amazon e-commerce platform. Implemented tracing framework in Java using Aspect Oriented Programming and also built a web interface using JSP.

Rice Computer Architecture, Research Assistant - *Summer 2009*
Faculty Supervisors: Alan L. Cox, Scott Rixner
Contributed to the Axon project, an Ethernet switch replacement that uses source routing to build large, scalable Ethernet networks. Designed and implemented Axon data plane and ARP protocol software simulators. Conducted experiments using simulators to collect data on various network topologies to demonstrate the scalability of large Axon networks.

Tennis Express, Website Content Writer - *Fall 2005 to Summer 2008*
Authored web content for online store, including product descriptions, product reviews, and product information guides for customers. Specialized in search engine optimization in order to drive maximum web traffic to the online store.

Coding Experience

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Product developed for a client in semester long software company simulation class. Multi-user collaborative 3D workspace with gesture recognition using Nintendo Wiimotes. Designed and implemented server back-end in C#/.NET that was capable of supporting multiple users concurrently, as well as multiple workspaces. Used SQL Server 2008 to store all aspects of workspace state and user information.

Yalnix Kernel and File System
Implemented a kernel and a file system for a simulated operating system in C. Kernel supports virtual memory, paging, multiple processes, context switching, and a variety of kernel calls (fork, exec, exit, wait). File system is similar to the Unix file system.

Tiny Shell
UNIX shell written in C that supports job control. Users can run executables in either the foreground or background and pause, start, and terminate current jobs.

Malloc
C implementation of malloc, free, and realloc routines using only sbrk() system call.

Web Proxy
Web proxy server written in C that forwards browser requests to web servers and web server data back to browsers. Supports multiple concurrent connections by making use of threads.

Gzip
Java implementation of gzip/DEFLATE compliant compressor/decompressor (RFC 1951/1952).

Awards, Honors, and

President's Honor Roll (Spring 2008, Fall 2008, Fall 2009)
Houston Endowment Scholarship Recipient

Activities

Louis J. Walsh Scholarship in Engineering Recipient
Rice Cyber Sports, Founder and President
Rice Club Tennis, Historian and Treasurer
Rice Vietnamese Students Association, Webmaster