

Will Johansson

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OBJECTIVE A full-time software engineering position; interested in operating systems, server software and application frameworks

EDUCATION *Rochester Institute of Technology*, Rochester, NY
Bachelor of Science, Computer Science, minor in Japanese
Dean's List Winter Quarter 2004-2005, Spring Quarter 2008, Winter Quarter 2008-2009
Graduation expected May 2009

COURSES Professional Communications, Computer Organization, Software Engineering, Systems Programming I & II, Programming Language Concepts, Data Communication & Networks, Algorithms, Graph Theory, Operating Systems, CS Theory, XML Tools & Tech, Privacy & Security

COMPUTER SKILLS *Languages/APIs:* C/C++, C#, Objective-C, MIPS and x86 assembly, Java, Perl, PHP/HTML, SQL, XML, bourne shell, Carbon, Cocoa, .NET, ASP.NET, SharePoint
Operating systems: Mac OS X, UNIX (BSD, Linux, Solaris), Windows
Software: Xcode, Eclipse, Visual Studio, Emacs, Office, MySQL, SQL Server, gcc/gdb, vi, Office SharePoint Server 2007

WORK EXPERIENCE *June – November 2008:* Software engineering intern, *OmniSystems, Inc.*, Vienna, VA

- Worked on the corporate web site in ASP.NET
- Worked on the University of the Virgin Islands website with SharePoint 2007 in C# and VB
- Programmed many custom controls and functionality to extend vanilla SharePoint
- Worked with Windows and UNIX servers
- Nagios for the monitoring of our network services

June – August 2007: Software engineering intern, *Atacomm*, Maple Grove, MN

- Responsible for bringing back Windows Forms in shape on Mac OS X for Mono (1.2.6)
- Used C with Carbon API and C# with .NET
- Worked closely with key maintainers to learn the intricate system
- First open source contribution

May – August 2006: System Administrator Jr., *Netsville, Inc.*, Rochester, NY

- Worked with UNIX servers, FreeBSD and Linux
- Maintained Apache/PHP, MySQL, Nagios, Postfix, Qmail, Courier-IMAP
- Used Perl and regular expressions extensively for system administration scripting

September 2004 – May 2005: Webmaster, *NTID Student Congress*, *Rochester Institute of Technology*, Rochester, NY

- Maintained a Debian Linux server
- Wrote the website in PHP with MySQL backend
- Used standards in order to increase accessibility, important for the Deaf at the school

PROJECTS *Systems Programming I:*

- Wrote a CD Jukebox in C, a School record system in x86 assembly
- Minimized program's footprint with data structures and eliminating redundancy in code
- Awarded 10 point bonus for efficiency
- Learned a lot about internals of compilers and generation of binary code

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- Wrote a serial driver for a simple x86 OS and an application for it
- Wrote a Unix shell with pipes and redirection using documented system calls

Systems Programming II:

- Wrote an OS from scratch for x86 with a partner
- Focused on my part, the VESA driver and the windowing toolkit
- Learned about OS development and debugging
- Traced and fixed many bugs and learned to make tradeoffs
- Produced working window manager and applications in 10 weeks

Analysis of Algorithms:

- Studied minimum spanning trees
- Implemented Kruskal's and Prim's algorithms in Java
- Tested it against theoretical runtimes to ensure it matched up

Data Communication & Networks:

- Designed a remoting API in C++
- Wrote a simple application to prove functionality
- Learned how to do custom serialization and remote method invocation in C++

Software Engineering:

- Coordinated the project and the team members
- Designed, coded a Java-based Defender style arcade game
- Learned project management skills and best practices in OO programming

ACTIVITIES NTID Theatre – Lysistrata – Fall/Winter 2005 – Actor

& French, German, Japanese, Spanish, traveling, culture, reading, automobiles, aerospace, user

INTERESTS interface, linguistics, photography, thrill-seeking, open source

References available upon request.