

DANIEL P. NOÉ

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EDUCATION

- **Bachelor of Science in Computer Science** – University of New Hampshire, Durham, NH
May 2008
 - ◇ Advanced coursework: Assembly Language, Operating Systems, Storage and Storage Area Networks
 - ◇ Independent study analysis of the Linux kernel sockets interface

EXPERIENCE

- **Software Engineer** – Netezza → IBM, Marlborough, MA
November 2010
 - ◇ Developed software for the blade and host levels of the massively parallel Netezza Database Appliance
 - ◇ Designed and implemented an improvement to an existing mechanism for reducing disk IO on tightly restricted queries
 - ◇ Designed and implemented novel scored cache replacement algorithm for intermediate query results
- **Software Engineer** – Lime Brokerage, Waltham, MA
June 2008-October 2010
 - ◇ Wrote market data forwarding application components in C, C++, and Java
 - ◇ Wrote processing code for reliable multicast (PITCH) and TCP market data feeds
 - ◇ Designed an InfiniBand interface for market data delivery
 - ◇ Designed a component to filter consolidated feeds by market participant
 - ◇ Improved and reduced overhead of performance instrumentation
 - ◇ Maintained existing code
- **Software Engineer** – Lamprey Networks, Durham, NH
June 2006 – June 2008
 - ◇ Designed and implemented network device test algorithms in C#, using Visual Studio.NET
 - ◇ Assisted framework and library development and debugging for a network standards compliance test tool
 - ◇ Maintained XSLT and XSL-FO transforms for Test Description Documents
 - ◇ Developed an internal test suite for company software core libraries
 - ◇ Assisted in Linux porting and QA for an iWARP and InfiniBand test tool
 - ◇ Represented company at DLNA Plugfest (Portland, OR) and Open Fabrics Alliance Interop Event (UNH-IOL)
 - ◇ Contributed to a growing company's IT knowledge base
- **Web Application Developer** – Lamprey Networks Downloads Website, Independent Contract
July 2007
 - ◇ Designed and implemented a small web application using Python with Django
 - ◇ Created HTML and CSS to match and integrate with company main page
- **Systems Administrator** – UNH Nuclear Physics Group, Durham, NH
Spring 2004 – Spring 2006

- ◊ Assisted in maintaining a mixed network of Windows, Mac OS X, and Linux systems.
- **Technician** – Microtime Computers, Amherst, NH
Summer and Fall 2003
 - ◊ Worked as a DSL installer and technical support technician
 - ◊ Worked as an in-shop and on-site technician for hardware and software troubleshooting on PC and Mac architectures
- **Systems Administrator** – `isomerica.net`, Littleton, MA
2000 – Present
 - ◊ Administered and maintained a Linux mail, web, shell, DNS, IRC, Jabber server
 - ◊ All services provided over IPv6 and IPv4

SKILLS

- **Computer Languages**
 - ◊ Proficient in C, C++, SQL, Java, Python
 - ◊ Familiar with Perl, C#, JSON, x86 Assembly Language, Standard ML
- **Tools and Systems**
 - ◊ Proficient in Object Oriented Design principles, data structures design, Wireshark, HTTP, IP Multicast including reliable multicast techniques, IPv6 networking, low latency and high performance design, Git, Bazaar, UPnP
 - ◊ Familiar with OpenLDAP, OpenSSL, Subversion, CVS, Pylons, Django, iSCSI, iWARP, InfiniBand, FIX
- **Miscellaneous**
 - ◊ Strong understanding of how the interaction between system architecture, CPU, kernel and application affects performance
 - ◊ Ability to learn new skills quickly and enthusiastically
 - ◊ Strong writing and clear communication skills
 - ◊ Good troubleshooting and problem solving skills

ACTIVITIES AND INTERESTS

- **Academic and Professional Interests**
 - ◊ Communications and Networking, IPv6
 - ◊ Operating Systems
 - ◊ Storage and Storage Management, Networked Storage
 - ◊ Open Source Software
 - ◊ Optimization
- **MIT Educational Studies Program SPLASH**
 - ◊ Taught two hour courses to high school students in 2006, 2007, 2009, 2010
 - ◊ Concurrency and parallel programming: Theory of concurrency, Amdahl's law, CPU atomic instructions and creation of language locking primitives
 - ◊ Operating system kernels: An overview of what an operation system kernel does including context switching, interrupts, scheduling, virtual memory management and paging, and file systems