

Chris Arcand

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Education

University of Minnesota, Minneapolis, MN
Bachelor of Science, Computer Science

2010 – present

Expected graduation: Fall 2013
GPA: 3.136

University of Minnesota, Minneapolis, MN
Bachelor of Music, Music Performance

2007 - 2011

Orchestral music, clarinet

Pertinent coursework completed

Internet Programming – HTML5 & CSS3, DOM programming with JavaScript, CGI programming (used Python), server-side web scripting with Node.js, MVC with PHP, jQuery, AJAX and JSON. I created a UDP server/client chat program using Python and MySQL, among other projects.

Computer Networks - Principles, protocols, and applications of computer networks. Layered network architectures, data link protocols, local area networks, routing, network programming interfaces, networked applications. I built a socket server using Python to implement a mock bank/ATM/client model storing user accounts and balances.

Operating Systems - Foundations of operating systems, shells, memory organization, file system overview, I/O, concurrent processes, and interprocess communication. I built a shell in the C programming language with basic terminal commands and a network socket program with semaphores (also in C) using the BSD socket API.

Related Work Experience

Nodus, Incorporated

2007 – present

Web Developer and Systems Administrator

- Helped develop and program an online maintenance application using Zend Framework (PHP) and MySQL for a major child care corporation. The application logs in users of different roles to add and process maintenance tickets from their nationwide chain of centers.
- Implemented a large content management system using Drupal 7 (PHP) and MySQL for a Minnesota environmental conservation council based in St. Paul. As well as present basic information about the council, it maintains a database of newsletters, calendar events, and conservation sponsors/donators.

Minnesota Muscle Laboratory (Thomas Lab, University of Minnesota)

2010 – present

Network Administrator

- Administrated network servers running Windows Server 2008 used for a variety of purposes, including remote terminal services, cloud storage, domain control and Microsoft Exchange for calendars and email.
- Distributed specialized software for lab computers used in experiments with magnetic resonance and optical spectroscopy.

Other related projects

- Through a Program Development class, implemented a language translator in C++ which converted a mock functional programming language to C++ using a modular development scheme. The four modules consisted of a scanner using regex, a recursive descent parser, an abstract syntax tree generator and a translator.
- Built a working web application in Python with other computer science colleagues which scraped the UofM Classroom Viewer site to an SQL database and presented sorted information on classroom schedule gaps to find the most efficient places to study throughout the day; it used the Flask and Beautiful Soup Python libraries.

For more information and project examples, please visit www.chrisarcand.com