

# Chris Arcand

<http://www.chrisarcand.com>

(Contact info omitted from web version)  
Washington, DC

## EDUCATION

### UNIVERSITY OF MINNESOTA

#### BACHELOR OF SCIENCE

#### COMPUTER SCIENCE

December 2013 | Minneapolis, MN  
Software and Data Systems Development  
College of Science and Engineering

#### BACHELOR OF MUSIC

#### MUSIC PERFORMANCE

May 2011 | Minneapolis, MN  
Clarinet performance  
School of Music | College of Liberal Arts

## LINKS

Github:// [chrisarcand](#)  
LinkedIn:// [chrisarcand](#)  
Twitter:// [@chrisarcand](#)

## COURSEWORK

Structure of Computer Programming I  
Structure of Computer Programming II  
Discrete Structures in Computer Science  
Machine Architecture and Organization  
Elementary Computational Linear Algebra  
Program Design and Development  
Algorithms and Data Structures  
Intro to Operating Systems  
Formal Languages and Automata Theory  
Internet Programming  
Intro to Computer Networks  
Practice of Database Systems  
Network Programming  
Intro to Data Warehousing  
Software Engineering I  
Programming Languages

## SKILLS

### PROGRAMMING

Ruby • JavaScript {Node.js} • Python

Also versed in:

C • C++ • Java • SQL • HTML/CSS • PHP

### OTHER

Unix-based systems (Linux & MacOSX)  
Git • Amazon Web Services  
Agile Development Methodologies  
Full-stack responsibility

## WORK EXPERIENCE

### RED HAT | SOFTWARE ENGINEER

December 2015 – Present | Washington, DC

- Ruby developer on ManageIQ, the open source project that powers Red Hat CloudForms

### SPORT NGIN | SOFTWARE ENGINEER

August 2013 – November 2015 | Washington, DC & Minneapolis, MN

- Developed a SaaS platform for amateur and professional sports organizations with applications built in Ruby (Ruby on Rails) and JavaScript (Node.js)
- Extensive experience with agile, full-stack development: building RESTful APIs, architecting internal DevOps tools with Ruby, and engineering large-scale web applications to thousands of clients.
- Embraced a leading role developing a substantial Rails application for a major national governing body and integrating it with the rest of the Sport Ngin platform.
- Co-authored a Ruby gem using the Amazon Web Services SDK to bring Amazon OpsWorks functionality to the command line for deployment, monitoring and configuring of applications. (Opsicle, found on GitHub)

### NODUS INCORPORATED | WEB DEV & SYSTEMS ADMINISTRATOR

September 2007 – August 2013 | Minneapolis, MN

- Wrote web applications for business clients to reduce overhead and simplify complexities.
- 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 | NETWORK ADMINISTRATOR

September 2010 – August 2013 | Minneapolis, MN

## OTHER RELATED PROJECTS

- 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 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 BeautifulSoup Python libraries.