

# David McGrath

511 Stonegate Drive  
Blacksburg, VA 24060

contact@davidmcgrath.com  
(540) 999-8399

## Objective

- To obtain a position as a software engineer; special interest in user-facing applications and Internet software development

## Known Technologies/Concepts

### Proficient

- C#, C++, Windows & Unix development, XML, Sockets Programming, Multithreaded applications

### Familiar

- Java, SSL, Python, MVC development, OpenID

## Education

### Overview

- Virginia Tech Spring 2012
- BS in Computer Science
- In-major GPA: 3.12
- Cumulative GPA: 2.84

### Relevant courses

- CS 2506 – Intro to Computer Organization
- CS 3114 – Data Structures and Algorithms
- CS 3214 – Computer Systems
- CS 4634 – Design of Information
- CS 4284 – Systems & Networking Capstone
- CS 4244 – Internet Software Development

## Work Experience

### Cobham Analytic Solutions, Centreville, VA (summer 2008 through summer 2011)

- <http://sparta.com>

#### Summer 2011 internship

- Owned a project, extending our team's core library and added mission-critical functionality
- Gained experience with OpenSSL development, C++ development in Linux, and working in a team

#### Summer 2010 internship

- Worked with team members to document and test Linux and Windows software
- Gained experience with MySQL

#### Summer 2009 internship

- Wrote a client and server in C++ to test a proprietary command/response protocol
- Learned bash scripting, make, and grew a good foundation for problem solving in UNIX
- Obtained a security clearance

#### Summer 2008 internship

- Wrote a series of tools to automate several steps in building company software
- Explored ASP.NET, Windows Server, and SQL Server

## Projects

### Blog

- <http://mypieceoftheinter.net>
- Learned how to configure and contribute content to a Wordpress blog

(winter 2007 to present)

### Download & Redirection Web Services

- <http://download.somewhatgeeky.com>, <http://redirect.somewhatgeeky.com>
- Initially written in PHP, then rewritten in C#
- The redirection service is used in this resume! <http://redirect.somewhatgeeky.com/resume>

(fall 2007 to present)

## **Online Identity**

**(summer 2007 to present)**

- <http://davidmcgrath.com>
- Learned and practiced the rudiments of MVC, jQuery, and CSS
- Created an OpenID relay

## **Roomie**

**(summer 2007 to present)**

- <http://davidmcgrath.com/roomie>, <http://roomiebot.com>, <http://beta.roomiebot.com>
- Home automation toolkit for creating a connected Smart Home
- Consists of an extensible scripting language, script interpreter, a web service, and a website

## **Arcadia**

**(summer 2007 to present)**

- <http://davidmcgrath.com/arcadia>
- ROM manager (or emulator frontend) for managing large libraries of classic gaming files

## **Activities**

### **LGBTQA Support Group**

**(fall 2011)**

- <http://www.lgbta.org.vt.edu/supportgroup.html>
- Moderator of a support group focused on working through issues concerning members of the LGBT community.

### **Tolls of Madness Theater Group**

**(fall 2009 through fall 2010)**

- <http://www.rocky-horror.org.vt.edu>
- President since fall 2010
- Gained experience talking to groups (during meetings and performances), assigning tasks, and directing work