Andrew Orr

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EDUCATION

University of Manitoba
 • 2005-2011
 • Bachelor of Science in Computer Science

Edward Schreyer School
 • 2005
 • Graduated

Manitoba Emergency Services College
 • Certified in Vehicle Extrication

DEVELOPMENT PROFICIENCIES

General Languages
 • ANSI C, C++, Objective-C, Ruby, Lua, Python,
   Verilog, Bash, ARM7 asm, Cortex-M3 asm

Web specific
 • Rails, Javascript, CofeeScript, jQuery, Ext JS,

Database
 • SQL, MySQL, PostgreSQL, SQLite

Other
 • Vim/Janus, XCode 4, Git, Eclipse, GDB

WORK EXPERIENCE

IDers Incorporated
 • 2011 - Present
 • Embedded Software Developer
 • Developed device drivers for RTOS
 • Developed device drivers for Linux
 • Designed and developed reference implementation
   of what eventually became industry standard
   routing protocol for locomotives.
 • Helped transition team from using CVS to Git.

Anvil Digital
 • 2009
 • Co-op Work Term III
 • iPhone/iPad Developer
 • Developed enterprise client (iPhone/iPad) and
   server (WCF/C#/.net) contacts directory application
   using iOS 4.x APIs.
 • Detected and fixed sql injection and other security
   vulnerabilites in existing application.

Information Protection Centre
 • 2007 & 2008
 • Co-op Work Terms I + II
 • Security Analyst
 • Developed custom log parsing application in C.
 • Developed an Nmap script to test for an IIS WebDAV
   vulnerability and subsequently developed an exploit
   for this vulnerability.
 • Performed security audits and vulnerability
   assessments on production servers.
 • Set up a small cluster for password cracking demo.

CONFERENCE / USER GROUP TALKS

Bit-banging 10BASE-T post-mortem
 • SkullSpace Embedded Meetup

Introduction to Embedded Development
 • Winnipeg Code Camp 2012

Hackerspaces Everywhere
 • Winnipeg Code Camp 2011
 • Re:Play @ Winnipeg Art Gallery

OPEN SOURCE CONTRIBUTIONS

Spree
 • pay_what_you_want extension
 • spree_active_shipping extension

Nmap Security Scanner
 • afp-serverinfo.nse Script
 • broadcast-dropbox-listener.nse Script
 • http-enum.nse Script
 • http-iis-webdav.nse Script
 • bitcoin.lua Library

SIDE PROJECTS

Retrohm (2012-present)
 • Spree based ecommerce project

Gryth (2013)
 • PegJam 4 Maze Racer Game
 • Designed and developed in a weekend

BSidesWpg Badge (2012-present)
 • Interactive conference badge

SNESchuck (2012)
 • Wii nunchuck that controls a SNES
 • Exhibited at Nuit Blanche @ Winnipeg Art Gallery

Gauntletkaruga (2011)
 • SoManyRooms gauntlet + ikaruga mashup game
 • Designed and developed solo in a weekend

SANS Holiday Forensics Challenge (2010)
 • Technical Winner

SkullSpace (2010-present)
 • Founder of Winnipeg's first Hackerspace
 • Former Financial Officer
 • Designed and developed SkullSpace Challenge

Jumble Solvr (2008)
 • iPhone Jumble solver app with 40k downloads

Bauble Break (2007)
 • Drunken Coders Holiday Challenge entry
 • Gameboy Advance game