

Steven Roberts

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Summary

I am educated, experienced and multi-talented. You will find me actively producing software in the video game industry using my abilities as an artist, designer, musician and programmer. Producing excellent robust software from start to finish is what I know how to accomplish. Information security and system administration are my other areas of expertise.

Experience

Cryptovirology Researcher

Research & Development

2017-2019

- Client-server models
- Cryptocurrency, Bitcoin
- Produced functional cross-platform proof of concept
- Programming in Go and C
- Public-key cryptography
- Symmetric-key algorithms
- Tor (anonymity network), hidden services (.onion)

Independent Video Game Developer

FenderQ Studio

2010-2016

- Contract and consulting services
- Game design, development and marketing
- Pointillism, mosaic and programmer pixel art
- Produced and released Universe64 title on App Store
- Produced and released Alkonost title on itch.io
- Soundtrack, music and audio effects production
- Produced and released Health chiptune album

Senior Software Engineer

KIXEYE Canada Ltd.

2014-2015

- Email verification system for mobile
- Penetration testing using cURL with Tor network
- Programming in JavaScript using React and Bootstrap
- Programming mobile web application
- RESTful web APIs

Co-Founder

Deadly Pear Games

2013-2014

- Produced multiple video game titles from concept to completion
- Monetization strategies and analytic reporting
- Programming C/C++ with SDL2, Lua 5.1 and ActionScript 3.0
- Apache Flex open source application framework
- Soundtrack composition and audio effects using Reason 5
- Linux/BSD system administration

Video Game Developer

KANO/APPS

2012

- Designed and created replay functionality with custom physics
- Implemented analytics for tracking real-time game events
- Implemented editor undo/redo functionality
- Legacy ActionScript code analysis
- Performance optimizations
- Social web connectivity for Kano Games
- Updated Free Rider game with new features and enhancements
- Worked with artists to implement new user interfaces

Video Game Developer

InLight Entertainment

2011

- Added iOS native Human-Interface behaviours to engine
- Added Retina display support to engine
- Worked on C++ proprietary game engine
- Managed code signing, app store submissions, ad-hoc distributions
- Released Jake and the Never Land Pirates for the LeapFrog LeapPad device
- Released Scout's Music, Sing Along with Us! and Toddler Rhythms for iOS

Senior Software Developer

Comtech Systems Inc.

2003-2009

- Cryptography and secure socket layer implementation using OpenSSL
- Discovery and resolution of security vulnerabilities
- Maintained 20+ year old financial software, 1300 companies, 38 countries
- RDM Server embedded client/server database
- Reverse engineering using W32Dasm on closed source binaries
- Symmetric ciphers, public key cryptography, certificates, hash functions
- Trained and managed development team
- Visual SourceSafe and CVS version control system
- Visual Studio 6.0 and Visual Studio C++ Express 2008
- Win32 API and C programming language
- Wrote RFC protocol implementations
- Wrote application task scheduler module

IT Consultant

Information Security

2001-2011

- Design, assembly and remote monitoring of fenderQbox security devices
- Management of Linux and BSD systems
- Setup and configuration of The Apache HTTP Server, BIND and Sendmail
- Snort network intrusion prevention and detection system
- System and software security audits

Network Administrator, Product Support

Comtech Systems Inc.

1999-2001

- Database report writing and import specifications
- Database support and maintenance
- Financial software application support and troubleshooting
- Implemented and maintained the backup system
- Windows NT 4.0, Windows 95/98/2000 support and networking

Bench Technician

Fort Micro Systems Ltd.

1998-1999

- Built and maintained PC systems for business and personal use
- Hardware and software troubleshooting and repair
- Onsite installation and support of systems

Help Desk

Ministry of Environment

1998

- Help desk support, Unix, Mac OS 8, MS-DOS, Windows 3.1, HP Printers
- Maintained the backup system
- Novell NetWare system administration

Music Teacher

Wards Music Ltd.

1995-1997

- Taught guitar styles, blues, classical, country, jazz, metal, rock, and surf
- Learned music provided to me, and then gave instruction how to play

Education

Camosun College

Mental Health and Addictions Certificate Program (Term 1)
2018

- Academic Writing Strategies
- Foundations for Practice
- Mental Illness and Interventions
- Professional Practice
- Therapeutic Relationships

Academy of Excellence Hair Design & Aesthetics Ltd.

Hair Design Program
2012

- Design Decisions
- Haircutting
- Hairstyling
- Product Knowledge
- Salon Ecology
- Trichology

Microsoft Corporation

Microsoft Certified Professional
1998

- Windows NT Server 4.0

CDI College of Business and Technology

Digital Systems Engineering
1997-1998

- Electronics, Engineering, PC repair, and Maintenance

Spectrum Community School

Secondary Education
1994-1995

Volunteering

Chairperson

VIHA Stabilization, Royal Jubilee Hospital
2019

- Facilitated group, public speaking
- Time Management skills
- Practiced listening skills
- Self reflection, discovery, and sharing

Guest Speaker

Community Medical Detox, Eric Martin Pavilion
2019

- Invited to share personal experiences
- Worked with team members, facilitator

Outreach Worker

Dandelion Society
2018

- Early mornings, starting at 4:30AM
- Provided outreach services, to vulnerable people, living on the streets

Program Volunteer

Our Place Society
2017-2018

- Facilitated group for Family Members in 50+ club
- Maslows hierarchy of needs, social belonging, self-esteem
- Practiced listening skills

Caregiver

HR Foundation
2016-2018

- Doctor Appointments
- Grief, Loss and Bereavement
- Hospital Visits
- Psychosocial Rehabilitation
- Self-care, Burnout Prevention Strategies

Portfolio and Social Media

<https://www.fenderq.com/>