Oliver Zheng

About

I am a software engineer interested in the networking and web-based products. I craft amazing experiences with meticulous design and solid engineering.

Contact

(425) 440-1789

me@oliverzheng.com

Expertise

Languages: C/C++, Python, C#, PHP, Javascript, HTML, CSS, SQL

Frameworks: Node.js, Twisted, Django, Knockout.js, Ember.js

Platforms: Win32, Linux, Google App Engine, Azure, Heroku

Work History

Facebook, Inc, Seattle, WA

Software Engineer **June 2013 – Present**

Moving fast and breaking things.

Microsoft Corporation, Redmond, WA

Software Development Engineer **September 2010 – May 2013**

Contributed and drove the web experience in a secret Office project that pulls together an Azure cloud service, an HTML5 web client and native C++ desktop client to deliver rich documents.

Software Development Engineer Intern **January – April 2009**

Explored Windows Mobile Win32 API and developed an embedded XAML-based network connectivity analyzer utilizing APIs at each network layer.

Broadcom Corporation, Vancouver, BC

Software Developer Coop **May – August 2008**

Designed software framework component with instant messaging and presence functionality for an existing VoIP SIP software stack and administrated SIP, presence, and XCAP servers on Debian.

Software Developer Coop **May – December 2007**

Developed a prototype for instant messaging and presence in SIP on VoIP enabled cable modems in C/C++, analyzed cryptographic suites and optimized the OpenSSL library for embedded device usage, designed and programmed a QA infrastructure with Tcl/Tk and Cygwin to enable easy test script development and multiple-target testing on a distributed network.

Publications

Oliver Zheng, Jason Poon, Konstantin Beznosov, "Application-Based TCP Hijacking," in Proceedings of the 2009 European Workshop on System Security, Nuremberg, Germany, ACM, 31 March 2009

Technical Projects

Windows Live Messenger Security Analysis **September – December 2007**

Analyzed Microsoft Notification Protocol (MSNP) used by Windows Live Messenger (WLM) and discovered security flaws that could lead to user impersonation, developed a technique – Application-Based TCP Hijacking (ABTH) – that exploits unencrypted TCP/IP protocols including MSNP.

Education

University of British Columbia *Vancouver, BC* **September 2005 – April 2010**

Bachelor of Applied Science, Computer Engineering

Ranked 1st in junior year and 7th in sophmore year out of 220 students

Honours and Awards

Trek Excellence Scholarship, 2006 – 2009

Thomas Beeching Scholarship, 2008

Charles and Jane Banks Scholarship, 2007

President's Entrance Scholarship, 2005

Michael Smith Science Challenge (2nd in BC), 2005

References

References available upon request.