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

Microsoft Corporation, Redmond, WA

Software Development Engineer **September 2010 – Present**

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

Nike+ Running Web App **October 2012**

http://funplus.truehipster.com

Reverse engineered the protocol used in the iOS Nike+ running app, developed a Node.js web app that mimics the native app to manually add runs to Nike+ accounts.

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

Macromedia Student Innovation Award, 2005

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

REFERENCES

References available upon request.