

NICHOLAS ARMSTRONG

MASc, EIT

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SUMMARY OF QUALIFICATIONS

- Expert knowledge of application development with specific focuses on user interfaces, web services, and web application performance
- A proficient developer and program manager; coded and shipped products in C#, node.js, backbone.js, and Android Java
- Deep knowledge of networks and their effect on web application performance; my thesis work developed a technique for decreasing web page load times over mobile (3G/4G) connections
- Driven to succeed - research, experimentation and iteration are key parts of my work ethic
- Extremely adept at technology, having worked on projects using a wide variety of languages (JavaScript, C#, SQL, CSS, Java), tools (Photoshop, Illustrator, Blend), and platforms (Windows, Linux, Android)

WORK EXPERIENCE

VP ENGINEERING

LEAD PROGRAM MANAGER

PRAVALA NETWORKS (KITCHENER-WATERLOO, ONTARIO)

OCT 2012 – PRESENT

MAY 2009 – OCT 2012

- Responsible for engineering activities, including the design and implementation of Pravalas mobile products
- Manage joint project with major hardware OEM, with responsibility for all project aspects including project requirements, schedule, architecture, developers, release delivery, and customer relationship
- Architect and code Pravalas horizontally-scalable policy management server (built with node.js and PostgreSQL), web management console (HTML5/LESS/backbone.js), and Android client interface (Java)
- Frequently participate in sales support, competitive product analysis, presentation writing, and product strategy
- Work directly with customers to demonstrate product capabilities and understand market needs

KEY ACHIEVEMENTS

- Represented Pravalas in meetings and trials with major operators in Japan, Korea, Taiwan, and China

PROGRAM MANAGER (PM) INTERN

SOFTWARE DESIGN ENGINEER (SDE) INTERN

MICROSOFT CORPORATION (REDMOND, WASHINGTON)

SEP 2008 – DEC 2008

JAN 2008 – APR 2008

- Managed the development of a WPF/Windows 7 sample application featuring multi-touch and ribbon integration for the 2008 Microsoft Professional Developer's Conference
- Developed photoSuru, an occasionally-connected photo viewing application, to demonstrate the highly differentiated experiences developers can create using WPF
- Assisted the WPF test team in testing new features of WPF to identify bugs prior to the release of .NET 3.5 SP1
- Surveyed line-of-business (LOB) application frameworks available for WPF as part of an effort to develop a strategy for LOB applications on the Microsoft .NET client platform

KEY ACHIEVEMENTS

- Provided on-site support for the .NET Corporate VP's keynote demonstration of the WPF/Windows 7 sample to the 6,000 attendees present at PDC 2008
- Drove photoSuru's release to web (with full source code) at www.photosuru.com (since retired)

ADDITIONAL EXPERIENCE

ACADEMIC REPRESENTATIVE

FOR THE COMPUTER ENGINEERING CLASS OF 2009 (8 STREAM)

MAY 2006 – MAY 2009

(VOLUNTEER)

SOFTWARE CONSULTANT

SYSTEMGROUP, INC. (MISSISSAUGA, ONTARIO)

AUG 2006 – AUG 2007

- Responsible for developing various solution components using a range of Microsoft technologies in cooperation with clients and other consultants (C#, WPF, WCF, ASP.NET, SQL Reporting Services)
- Lead the development of a public website refresh for a not-for-profit organization by researching content management systems that would integrate with their existing infrastructure, developing the site based on their specifications, and deploying the website using DotNetNuke

PROGRAM DEVELOPMENT

GREATER TORONTO AIRPORTS AUTHORITY (TORONTO, ONTARIO)

JAN 2006 – APR 2006

- Designed and developed a web application using ASP.NET/C# to tabulate training requirements and course completions for Facilities staff to ensure that all workers were up-to-date in their training and certifications

SOFTWARE DEVELOPMENT

HYDRO ONE NETWORKS, INC. (BARRIE, ONTARIO)

APR 2005 – SEP 2005

- Developed tools to monitor the performance of operations planning using Visual Basic and Microsoft Access

UNIVERSITY EDUCATION

MASTER OF APPLIED SCIENCE

UNIVERSITY OF WATERLOO – ELECTRICAL AND COMPUTER ENGINEERING

MAY 2009 – SEP 2011

- Thesis topic: *Accelerating the Mobile Web: Just-In-Time Push Prefetching*

BACHELOR OF APPLIED SCIENCE

UNIVERSITY OF WATERLOO – HONOURS COMPUTER ENGINEERING, WITH DISTINCTION - DEAN'S HONOURS LIST

SEP 2004 – APR 2009

MEMBERSHIPS AND PATENTS

ENGINEER IN TRAINING, Professional Engineers Ontario

CANADA PATENT #2791523, Accessing Local Network Resources in a Multi-Interface System