

NICHOLAS ARMSTRONG

MASC CANDIDATE, COMPUTER ENGINEERING, UNIVERSITY OF WATERLOO
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SUMMARY OF QUALIFICATIONS

- Expert knowledge of application development with Windows Presentation Foundation (WPF) and C#, culminating in two internships spent with the WPF team at Microsoft
- Driven to excel, having independently learned numerous technologies (most recently, LINQ and Python) in order to improve my skills
- A proficient developer and program manager; coded and shipped Microsoft's photoSuru WPF sample
- Excellent leadership and communication abilities, fine-tuned through my experience as a consultant
- Uniquely experienced in multi-touch applications, having developed applications using both the Surface SDK and Windows 7 touch technology
- Extremely adept at technology, having worked on projects using a wide variety of languages (C, C#, XAML, SQL, CSS, Java, Python) and tools (Photoshop, Illustrator, Expression Blend, Visual Studio)

UNIVERSITY EDUCATION

MASTER OF APPLIED SCIENCE (CANDIDATE)

UNIVERSITY OF WATERLOO – COMPUTER ENGINEERING

MAY 2009 – PRESENT

BACHELOR OF APPLIED SCIENCE

UNIVERSITY OF WATERLOO – HONOURS COMPUTER ENGINEERING, WITH DISTINCTION AND ON THE DEAN'S HONOUR LIST

SEP 2004 – APR 2009

AWARDS AND DISTINCTIONS

ALBERT SHERWOOD BARBER AWARD

FOR BEST OVERALL WORK TERM AND ACADEMIC PERFORMANCE

JUNE 2009

ROCKWELL AUTOMATION CANADA AWARD

FOR BEST WORK TERM REPORT, 4TH YEAR COMPUTER ENGINEERING

MAY 2008 – AUG 2008

GERRY HECKMAN SCHOLARSHIP

FOR ACADEMIC PERFORMANCE AND EXTRACURRICULAR ACTIVITIES

MAY 2008 – AUG 2008

BERNIE ROEHL AWARD

FOR ACADEMIC PERFORMANCE AND EXTRACURRICULAR ACTIVITIES

JAN 2007 – APR 2007

FACULTY OF ENGINEERING ENTRANCE SCHOLARSHIP

FOR ACADEMIC PERFORMANCE

SEP 2004 – DEC 2004

WORK EXPERIENCE

PROGRAM MANAGER (PM) INTERN

SEP 2008 – DEC 2008

MICROSOFT CORPORATION (REDMOND, WASHINGTON)

- Managed the development of a WPF/Windows 7 sample application featuring multi-touch and ribbon integration for the 2008 Microsoft Professional Developer's Conference
- Created developer tools and documentation for photoSuru, the photo subscription sample application I developed in my previous term with Microsoft in preparation for its release
- 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

SOFTWARE DESIGN ENGINEER (SDE) INTERN

JAN 2008 – APR 2008

MICROSOFT CORPORATION (REDMOND, WASHINGTON)

- 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
- Designed and developed 'photoSuru 360°', a version of our existing sample application optimized for the Microsoft Surface to test the adaptability of existing WPF applications by running them on Surface using the Surface SDK

KEY ACHIEVEMENTS

- Primary developer on photoSuru, a developer sample released by Microsoft in December 2008.

SOFTWARE CONSULTANT

AUG 2006 – AUG 2007

SYSTEMGROUP, INC. (MISSISSAUGA, ONTARIO)

- Responsible for developing various solution components using a range of Microsoft technologies in cooperation with clients and other consultants
- 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
- Supported the sales team by developing prototypes for potential clients using ASP.NET and CSS

KEY ACHIEVEMENTS

- Designed the user interface for a wealth management system developed for a large Ontario credit union

ADDITIONAL EXPERIENCE

ACADEMIC REPRESENTATIVE

FOR THE COMPUTER ENGINEERING CLASS OF 2009 (8 STREAM)

MAY 2006 – MAY 2009

(VOLUNTEER)

- Acted as a liaison between the Department of Electrical and Computer Engineering and the Computer Engineering class of 2009 (8 stream), providing feedback to improve the quality of the undergraduate program

MICROSOFT STUDENT PARTNER

FOR THE UNIVERSITY OF WATERLOO

SEP 2007 – DEC 2007

- Promoted Microsoft technologies and products to students on the University of Waterloo campus by sponsoring student-run events and hosting technical demonstrations

TECHNICAL DIRECTOR

UW ENGINEERING DRAMA PRODUCTION

JAN 2005 – APR 2007

(VOLUNTEER)

- Designed the sound and lighting layout for the Engineering Society Drama Production and supervised the tech crew

PDENG STUDENT REPRESENTATIVE

FOR THE COMPUTER ENGINEERING CLASS OF 2009 (8 STREAM)

MAY 2006 – AUG 2006

(VOLUNTEER)

- Acted as a liaison between the administrators of the PDEng program and the Computer Engineering class of 2009 (8 stream), providing feedback to improve the quality and value of the PDEng program

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

CERTIFICATIONS, INTERESTS AND MEMBERSHIPS

STUDENT MEMBER, Professional Engineers Ontario

RADIO OPERATOR'S CERTIFICATE (AERONAUTICAL), Industry Canada

INTEREST IN MUSIC (former band member, proficient on the baritone and alto saxophones as well as the organ)

INTEREST IN MULTIMEDIA TECHNOLOGY (assisted in the creation of a music technology course at my high school)