Chien-Wen Danny Su

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Skills Summary

- **Programming:** 3.5 years of full-time experience developing production quality code and shipping C++ software. Experience using and developing on Linux.
- **Passion:** Self-motivated and loves to code during spare time.
- **Teamwork:** Committed to the overall success of the team and actively works to improve working relationships.

Employment and Project Experience

Software Development Engineer II
Microsoft Corp., Redmond, WA

July 2007 to Present

Windows Phone 7
- Implemented driving and walking direction features for the Bing Maps application.
- Proposed a new UI interaction to management and prototyped the idea on own initiative. Drove the project to development phase after iterative refinement with program manager, UI designer, and user researcher.

Windows Mobile 6.1 and 6.5
- Developed a lock screen gesture feature for LG Fathom phones using an existing handwriting recognition engine in Windows Mobile.
- Delivered several features written in C++, including Embedded Album Art for Windows Media Player and Keyboard Typing Shortcuts.
- Demonstrated ability to learn new technologies quickly by resolving bugs in wide variety of areas while helping Motorola and LG to commercialize phones.

Other Achievements
- Created the Home Screen Customizer application in C# during spare time. It had 151,116 downloads on Windows Mobile Marketplace as of July 21, 2010, and it was later bundled by Microsoft to ship on Huawei C8300 phones in China.
- Wrote a C# tool during spare time to modify phone ROM images on desktop PCs. The tool saved developers and testers time by eliminating the build process.
- Won the internal W3C widgets for Windows Mobile contest with the OneBusAway.org widget, which uses HTML and AJAX for UI and data retrieval.
- Won the internal Xperia X1 programming contest with an application that enables search via keywords for settings users want to change.

Software Development Engineer Intern
Amazon.com Inc., Seattle, WA

August 2006 to
December 2006

- Researched SimRank and co-citation link analysis algorithms, which use the number of common links between items to determine the degree of similarity between items.
- Experimented with link analysis algorithms by implementing several designs for a matching engine in C++.

Software Development Engineer Intern
Microsoft Corp., Redmond, WA

January 2006 to
April 2006

- Migrated Microsoft ActiveSync Service Provider from using CEDB database to EDB database.
- Traced in ARM assembly and C++ to fix an ActiveSync heap overflow bug that was disguised as a data type misalignment error.
- Debugged and fixed code defects in an ActiveSync application and solved a Palm Treo 700w Smartphone's synchronization problem.

Projects
http://projects.dannysu.com

- Implemented version 11 of the MSN protocol for Gaim and Adium open source instant messaging clients in C.
- Developed a Java speech recognizer (http://ocvolume.sf.net) with two other students that uses vector quantization to differentiate between various words.
- Studied and implemented a customized Huffman Coding compression algorithm in C to compress a German dictionary as a hobby project while working at ScanSoft.
- Enhanced user experience for an open source software named Evolution for Linux by writing and distributing a patch written in C to display a system tray icon.

Education

Bachelor of Applied Science in Computer Engineering
University of Waterloo, Waterloo, ON

September 2002 to
April 2007

- Graduated with distinction
- Dean's Honor List in Spring 2004 and Winter 2003
  (16th out of 174 students and 17th out of 195 students respectively)