

Jonathan Chui

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I am an established graduate with solid co-op experience, adept at pioneering fresh ideas, mastering technologies quickly & architecting first-rate software. I desire to extend my positive impact in a hybrid business/tech role at a high-tech startup.

TECHNICAL SKILLS

Mobile & Software Programming

- iPhone Development: Developed **2 iPhone apps** for home lighting automation & vehicle trip-time efficiency.
- Skilled in Cocoa (Objective C), C, C#, C++, Java, MATLAB, AutoHotKey Scripting (advanced macros & hotkeys)

Web Development

- Hosted Apache web server, running PHP with RESTful web services for iPhone connections.
- Proficient in HTML, CSS, Python, PHP, DHTML, Flash, ActionScript, ASP, MSSQL /MySQL, Javascript, Photoshop

Graphics

- Passion for elegant UX/HCI. Experienced in GUI, game & animation development (Java AWT/Swing & OpenGL)

Operating Systems / IDE's

- Experienced in Mac OSX, Windows, & Linux environments, w/ XCode, VisualStudio, Eclipse, NetBeans

TECHNICAL WORK EXPERIENCE



Microsoft Corporation, *Program Manager*

Redmond, WA

2008

- Researched, designed & spearheaded a next-generation evaluation engine, increasing Microsoft Web Service deployment times by over **200%**.
- Skillfully guided a team of over 5 seasoned developers to **100%** project completion.
- Rewarded by managers & team for delivering a visually stunning final presentation & demo
- Revitalized the interns' social life by creating the 1st Microsoft Interns Soccer League



Dolby Laboratories, *Research & Development Co-op Engineer*

Vancouver, BC

2007 – 2008

- Recaptured **3 multi-million** dollar accounts with Sony, Sharp, & Toshiba by spearheading the release of a critical Marketing Application. Caught attention of **CEO Bill Jasper**.
- Completed advanced LED research which previously took 2 individuals 4 months **in less than 1 month** through AutoHotKey scripting, hardware reverse-engineering, & pure ingenuity.
- Uncovered inefficient LED patterns & proposed an improvement increasing efficiency by **15%**.



Visiphor Corporation, *Software Engineer*

Vancouver, BC

2006

- Completely redesigned both UX & backend of Visiphor's flagship product from the ground up with 20+ new features, while independently learning & mastering C#.net
- Implemented nightly automated builds, saving the company **over \$10,000 per annum**
- Accelerated software testing **400%** by developing the company's first Software Testing Core



University of British Columbia, *Robomine Website Editor*

Vancouver, BC

2005-2006

- Increased web traffic over **800%**, while **tripling** ad sales revenue through complete redesign
- Independently learned and executed HTML, DHTML, Java and ASP for a visually stunning site
- Authored an academic paper on the "New Era of Intelligent Systems" - IPMM'05, Monterey, CA

EDUCATION & ACHIEVEMENTS

University of British Columbia –Bachelor of Applied Science + CPSC

Vancouver, BC

2004-2009

- Awarded Entrance Scholarship. **GPA:80% (A- or 3.7 GPA)**
- **Finalist** in Canadian Merit Scholarship Foundation & John Motley Citation (**Top 4% & Top 12** in Canada)
- Coursework included: *Human Computer Interaction (HCI), Artificial Intelligence, OpenGL, Database, Advanced Software Algorithms, Quantum Mechanics, Partial Differential Equations, Electro-Magnetic Theory, Circuit Analysis, Digital Logic Design, Discrete Structures & Algorithms, Fluid Mechanics, Complex Variables*

TECHNICAL PROJECTS & COMPETITIONS

- iPhone X10 Home Automation Control App (Objective C, XCode, PHP, Apache)** 2010
- Connected home lights via X10 to home server, hosting web services to control lights & inform users
 - Developed iPhone application to control lighting & brightness via web services on the home server
- iPhone Vehicle Travel-Timer App – Phase 1 (Objective C, XCode)** 2010
- Phase 1: Calculates average & fastest times between common routes on Car, Bicycle & Bus.
 - Phase 2: Integrating location detection, route mapping, & option to ghost race against your fastest time!
- UBC APSC 404: iFind – Personal Valuables Tracking (Online WebApp, Prototype, Photoshop)** 2009
- Led a team of 5 to research, brainstorm & design a cutting-edge product, solving a real-world problem
 - Presented as finalist in TEC UBC's "Bright Ideas 2009" competition, later approached by VC's for funding
- UBC APSC 479: Low Cost Eye-Gaze Tracking (C++, Visual Studio, Open Source libraries, SVN)** 2008
- Led entrepreneurial efforts to create a low-cost method of tracking eye gaze with a laptop IR camera
 - Rolled out a prototype to track horizontal eye movements in real-time processed at 15 fps for under \$40
- UBC ASPC 459: Wireless Parking Lot Monitoring (ZigBee, C, Java AWT/Swing, NetBeans)** 2007
- Conceived proof-of-concept innovative method to solve wasted time looking for parking spots
 - Projected revenue cost savings of up to 50%, included increased user satisfaction
- UBC APSC 259: Autonomous Rescue Robot Competition (Interactive C, MIT Handyboard)** 2006
- Spearheaded invention & design of wall-detecting, line-following, doll-collecting, autonomous robot
 - Individually recognized & invited to compete in final competition for uniquely innovative passive solution

PROFESSIONAL SKILLS

Professional:

- Influential and charismatic personality comfortable in a team setting
- Keen and fast learner able to pick up new concepts and skills quickly
- Exceptional aptitude in academic, community & leadership pursuits
- Experienced in handling multiple tasks and adjusting schedule accordingly

Communication:

- Toastmaster International Member, Public Speaker at High School & Universities
- Fluent in English and French, conversational in Chinese

VOLUNTEER EXPERIENCE

- Founder – William Aberhart's 1st Annual Eye Glasses Drive (2004)** **Calgary, AB**
- Founded, marketed & collected over **200 eyeglasses** for blind & needy children in third world countries
- Organizer and Canvasser – World Vision Canada (2004)** **Calgary, AB**
- Organized over **100+ youth** in raising over **\$10 000** for poverty-stricken children

HOBBIES & INTEREST

- **Technology:** New technology early-adopter; Anything Apple; Programming innovative iPhone apps; Gaming.
- **Sports:** Competitive soccer & volleyball; Recreational snowboarding, biking; Riding my motorcycle.
- **Music & Arts:** Playing guitar, singing & watching musicals; Theatre & Acting.

References available upon request