

CHRISTOPHER W. BOWRON

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SUMMARY

Software Engineer with experience across multiple languages, platforms, and programming paradigms. Over 14 years professional experience and a Master's Degree in Computer Science. Most recently, developing cutting edge video apps on Android.

EXPERIENCE

TechSmith Corporation – Okemos, MI

December 2005 – Current

- **Senior Mobile Software Engineer** – [Coach's Eye for Android](#)

November 2011 – Current

- Developed core video library for frame by frame video analysis
- Developed library for importing and exporting h.264 videos using Android stagefright library
- Created end-to-end prototype demonstrating product feasibility
- Lead development of version 1.0 of InstantReplay Sideline Video app

- **Software Engineer** – TechSmith Labs research group

March 2008 – November 2011

- Created prototype screen recorder using the H.264 encoder in Media Foundation for Snagit 11
- Developed TechSmith Screen Codec 2 as part of a small technical team
- Investigated technologies related to screen capture and multimedia applications

- **Software Engineer** – [Camtasia Studio](#), Morae

December 2005 – March 2008

- Designed and implemented the “lock to application” feature of Camtasia Recorder making it easier for users to record applications at a particular dimension
- Developed the recorder backend required for Camtasia SmartFocus
- Worked on various features of Camtasia Studio and Camtasia Recorder

IC Tech, Inc. – Okemos, MI

May 2003 – December 2005

- **Software Engineer** – Matlab, Visual C++, and Visual Basic for Applications

- Expanded suite of tools for automated testing of speech recognition engines
- Research on computer vision and speech processing projects

Michigan State University – East Lansing, MI

August 2001 – May 2003

- **Teaching Assistant** – “Discrete Structures in Computer Science”

- Taught weekly recitation sessions, held regular office hours, and graded papers

SKILLS

Programming Languages: Kotlin, Java, C, C++, Racket, Scheme, Objective-C, Common Lisp

Operating Systems: Android, iOS, Microsoft Windows, macOS, Linux, Solaris, QNX

Tools: Android Studio, Eclipse, Visual Studio, Xcode, GNU Compiler Collection, Emacs, L^AT_EX, Git, Subversion

Libraries: Android SDK, Android NDK, RxJava, SQLite, MFC, Qt, OpenGL, Intel C++ Intrinsic

PERSONAL PROJECTS

[Jukey](#) – Jukebox app for Android devices

[Jam Session](#) – Android app for recording guitar practice sessions

[pspChess](#) – Open-source chess for Sony PlayStation Portable

PUBLICATIONS

Adaptively Routing P2P Queries Using Association Analysis. Brian D. Connelly, Christopher W. Bowron, Li Xiao, Pang-Ning Tan, and Chen Wang. 2006 International Conference on Parallel Processing (ICPP-06: 281-288)

EDUCATION

M.S. Computer Science, Michigan State University, May 2005

B.S. Computer Science, Michigan State University Honors College, May 2001. Philosophy minor