

# CHRISTOPHER W. BOWRON

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## SUMMARY

Software engineer with experience across multiple languages, platforms, and programming paradigms. Over 17 years professional experience and a Master's Degree in Computer Science. Extensive Android knowledge and experience.

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## EXPERIENCE

**TechSmith Corporation**, Okemos, MI

*December 2005 – Current*

- **Staff Software Engineer**

*August 2017 – Current*

- Led development effort of TechSmith Audiate from research and prototyping phase through initial release
- Developed critical performance improvements for Camtasia 2018 for macOS
- Helped interview software engineering candidates

- **Senior Mobile Software Engineer**

*November 2011 – August 2017*

- Led Android development team for Coach's Eye and InstantReplay Sideline Video app
- Developed core video library for frame by frame video analysis
- Created end-to-end Coach's Eye prototype demonstrating product feasibility
- Mentored less experienced developers

- **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*

- Developed the recorder backend required for Camtasia SmartFocus
- Worked on various features of Camtasia Studio, Camtasia Recorder, and Morae

**Software Engineer** – IC Tech, Inc., Okemos, MI

*May 2003 – December 2005*

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

**Teaching Assistant** – Michigan State University, East Lansing, MI

*August 2001 – May 2003*

- Teaching assistant for MSU's "Discrete Structures in Computer Science" class
- Taught weekly recitation sessions, held regular office hours, and graded papers

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## SKILLS

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

**Platforms:** Android, Electron, macOS, iOS, Microsoft Windows, Linux, Unix, QNX

**Tools:** Android Studio, WebStorm, Xcode, Visual Studio, GCC, Emacs, L<sup>A</sup>T<sub>E</sub>X, Git, Node.js

**Libraries:** Android SDK, Android NDK, RxJava, React, SQLite

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## PERSONAL PROJECTS

**Jukey** – Jukebox app for Android devices with YouTube, Spotify and network playback

**pspChess** – Open-source chess for Sony PlayStation Portable

**Jam Session** – Android app for recording guitar practice sessions

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## 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)

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## EDUCATION

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

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