

# Ben Johnson

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[benrobjoh.com](http://benrobjoh.com)

## Education

### Georgia Institute of Technology

- Candidate for online **MS Computer Science**, entered January 2015
  - Courses in computer networks, computational photography, knowledge-based artificial intelligence, educational technology, information security, and machine learning for trading

### University of North Carolina at Chapel Hill, December 2011

- **MS Economics**
  - Master's Paper: *Student Debt: Who Borrows?*
  - Concentration: Applied Microeconomics

### Elizabethtown College, May 2010

- **BS Mathematics, Economics**, Minor: Spanish
  - GPA: 3.91/4.00
  - Summa Cum Laude
  - Elizabethtown College Honors Program

### Hempfield High School, June 2007

- GPA: 3.98 / 4.0
- Class Rank: 8 / 557

## Projects

### [Pretty Swift](#)

*August - December 2015*

- Pretty Swift is a learning resource to help beginning programmers get started with iOS development. The Pretty Swift course is a roadmap for beginning iOS developers. All the course materials are available on [GitHub](#).

### [Baseliner for iPhone](#)

*May 2012 – September 2012*

- Developed Baseline, an iPhone app for sale on Apple's App Store that allows users to keep a record of their tennis matches

## Open Source Contributions

### BRJPopoverPicker

April 2014, owner of project

### Magical Record

January 2014

### CocoaLumberjack

March 2015

## Experience

### iOS Developer and Founder, [Bixelcog LLC](#)

Lancaster, PA: August 2014 - present

- Founder of company offering iOS development consulting services
- Served as lead iOS developer on two applications for Steinway & Sons, [Steinway Spirio](#) and [ArkivMusic Streaming](#) (August 2014 - March 2016)

### iOS Developer, The Hershey Company

Hershey, PA: October 2012 - March 2015, December 2015 - present

- Contracted through System One
- Developed iPad apps for use by Hershey's national field sales organization.
- **Torch and Matchstick**
  - Torch: Winner of 2013 Milton Hershey Award of Excellence: Application of Insights and Technology
  - Matchstick: Finalist for 2014 Milton Hershey Award of Excellence: Application of Insights and Technology
  - Sales representatives use these apps for all aspects of the store visit process including managing their route, taking notes, presenting key information to store managers, verifying stock levels for key products, and more.
  - Senior iOS developer on team ranging from 1–3 developers
- **Work With Form**
  - Sales managers use this app for performance evaluations
  - Architected the custom-built web services
  - Sole developer for iOS app
- **Expense and Time Approvals**
  - Managers approve or reject expense reports and time sheets
  - Sole developer for iOS app
- **Daycode**
  - Translate dates to manufacturing codes and back

- Adaptive, universal app with today widget
- Apple Watch app and complication
- Swift 3
- Sole developer
- **Phone Book**
  - Hershey employee directory
  - Call, text, or email an employee
  - View an employee's manager and direct reports
  - Universal iOS app written in Swift 3
- Wrote iOS networking code to interact with Hershey's time and expense SAP systems, Salesforce.com, and with multiple other sales systems
- Conceived and coded a generalized procedure that is used in multiple Hershey apps to support online and offline syncing of Core Data with a backend server
- Managed code using Git and managed tasks in Jira
- Set up and managed Hershey's internal CocoaPods code repository and iOS build environment

### **Teaching Assistant, University of North Carolina at Chapel Hill**

*Fall 2010 – Spring 2012*

- Taught recitations, graded homework and exams, and assisted with running classes with over 500 students

### **Actuarial Intern, Arch Insurance Group**

*New York, NY: Summer 2009*

- Blended industry data with Arch loss experience to select Loss Development Factors, set up Arch LDF Library, presented findings to Corporate Actuarial group

### **Math Lab Tutor, Elizabethtown College**

*Elizabethtown, PA: Fall 2009 - Fall 2010*

- Assisted students with mathematics homework

### **National Junior Tennis League Instructor, Hempfield Area Recreation Commission**

*Landisville, PA: Summer 2004 - 2008, 2010 - 2016*

- Taught tennis to children ranging from age five to fifteen; managed an assistant instructor; constructed each day's lesson with age-appropriate tennis activities

## **Academic Achievements**

- Passed SOA/CAS actuarial Exam FM on first attempt with a score of 8 (actuarial exam)
- Elizabethtown College Presidential Scholarship Recipient
- Elizabethtown College Scholar
- Dean's List every semester in undergraduate

- Distinguished Student of the Year nominee at Elizabethtown College
- Honors in the Discipline of Economics for senior honors thesis at Elizabethtown College
- Pi Mu Epsilon mathematics honor society member
- Delta Mu Delta business honor society member
- William Lowell Putnam Mathematical Competition participant (2008)
- National Merit Finalist (2006)
- Winner of National Council of Teachers of English Achievement Award for Writing (2006)

## Selected Courses

### BerkeleyX, *edX*

- Software as a Service: Engineering Long-Lasting Software I
  - Used best-of-breed tools that support modern development techniques including behavior-driven design, user stories, test-driven development, velocity, and pair programming. Learned how modern programming language features like metaprogramming and reflection can improve productivity and code maintainability
- Software as a Service: Engineering Long-Lasting Software II
  - Learned how to monitor performance, identify and fix common performance problems, and avoid compromising customer data. Learned how to apply Agile techniques to enhance and refactor legacy code

### Johns Hopkins, *Coursera*

- Computing for Data Analysis
  - How to program in R and to use R for effective data analysis
- Data Analysis
  - Data analysis methods to achieve insight

### Stanford, *Coursera*

- Startup Engineering
  - Intersects academic computer science and production software engineering by teaching engineering, design, and marketing in the context of mobile web development

### MongoDB University

- M101JS: MongoDB for Node.js Developers
  - MongoDB installation, JSON, schema design, querying, insertion of data, indexing and working with language drivers

## Skills

- Swift, Objective-C, Xcode, and iOS development
- Cocoapods
- Git
- Applied Econometrics, Health Economics, Labor Economics

# Academic Presentations

## Elizabethtown College Scholarship Day

- “The Economics of College Tuition and Financial Aid” (2010)
- “How Twentieth Century Spanish History Explains the Rivalry Between Real Madrid CF and FC Barcelona” (2009)
- “The Politics of Global Warming” (2008)

## King’s College Global Landscapes Conference

- “The Economics of College Tuition and Financial Aid” (2010)

## EPaDel Mathematical Association of America Conference

- “History of Baseball Statistics” (2010)