

# Ben Johnson

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

## Education

**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

**Baseliner** for iPhone

*May 2012 – present*

- Developed Baseliner, an iPhone app for sale on Apple's App Store that allows users to keep a record of their tennis matches
- Uses iOS technology like reverse geocoding, Address Book integration, camera integration, Facebook and Twitter integration, and storyboards
- Allows users to export a .csv file of all of their match records to Dropbox via the Dropbox API

## Open Source Contributions

**BRJPopoverPicker**

*April 2014*

- Owner of open-source Objective-C library for iOS that shows a list of items inside a popover that allows the user to select one

**Magical Record**

January 2014

- Contributed code to import dates represented as Unix time into Core Data, based on configuration in the Core Data model

## Experience

### iOS Application Developer, The Hershey Company

*Hershey, PA: October 2012 – present*

- Developed several iPad apps for use by Hershey's national field sales organization. Sales representatives use the 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.
- Member of project team that won 2013 Milton Hershey Award of Excellence: Application of Insights and Technology
  - 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
  - Extensive use of Core Data with multiple `NSManagedObjectContext` s and importing large data sets on to the iPad
  - Experienced in use of Cocoa Auto Layout, custom view controller transitions, and size classes
  - Used iOS camera integration and location services
  - Created highly custom interface elements to match the designer's specifications
  - Localizable app for use in multiple languages
  - Managed code using Git and managed tasks in Jira
  - Refactored legacy code to improve reusability and reliability
  - Employed Agile methodology
  - Set up and managed Hershey's internal CocoaPods code repository

### 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 - 2014*

- 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**

- 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)