

# Ben Johnson

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benrobjoh.com

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## — Education —

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### 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

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## Projects

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### 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

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## Experience

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### iOS Application Developer, The Hershey Company

*Hershey, PA: October 2012 - present*

- Developed iPad apps for use by Hershey field sales team in entering time and expense reports and to manage their store calls, analyze performance of products, and present product information to store managers
  - iPad apps interact with Hershey's time and expense SAP systems
  - Extensive use of Core Data fetching and aggregation
  - Used iOS camera integration
  - Created custom interface elements to match the designer's specifications
  - Managed code using Git and managed tasks in Jira
  - Refactored legacy code to improve reusability and reliability
  - Wrote automated unit tests in OCUnit
  - Employed Agile methodology

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

*Fall 2010 - Spring 2012*

- Econ 410 Intermediate Microeconomic Theory (*Spring 2012*): Ran weekly review sessions to answer student questions, graded homework and exams for a 500-student class
- Econ 101 Introduction to Economics (*Fall 2011*): Taught three recitation sections, held office hours, created exam questions, graded exams, facilitated logistics associated with running a 400-student class
- Econ 460 Economic Development (*Spring 2011*): Graded homework
- Econ 423 Financial Markets (*Fall 2010*): Graded homework and exams, graded weekly reports associated with stock market investment project

### Actuarial Intern, Arch Insurance Group, New York, NY

*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 - 2012*

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

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## **Academic Achievements**

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- 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)

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## **Courses**

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### **University of North Carolina**

- Microeconomics
- Game Theory
- Macroeconomics (Growth Theory)
- Monetary Macroeconomics
- Econometrics
- Applied Econometrics
- Advanced Econometrics
- Health Economics
- Labor Economics I & II
- Empirical Industrial Organization
- Microeconometrics

### **Elizabethtown College**

- Calculus (I, II, III)
- Linear Algebra
- Theory of Probability
- Financial Mathematics
- Computer Science (C++)
- Statistical Methods in Research
- Discrete Mathematics
- International Economics
- Accounting
- Economic Development
- Real Analysis
- Abstract Algebra
- Mathematical Economics
- History of Mathematics
- Seven years of coursework in Spanish, with college courses in literature, linguistics, modern society, and conversation
- Honors Leadership

## **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

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## **Skills**

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- Objective-C, Xcode, and iOS development
- HTML, CSS, JavaScript, and jQuery for web development
- Git
- Ruby
- Applied Econometrics, Health Economics, Labor Economics

- Data Analysis in Stata, Matlab, and R
- Spanish Language

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## Academic Presentations

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### 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)