

# Johan Henkens

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- ♦ Education
  - M.S. in Computer Science**  
University of California, Santa Barbara  
*Date of Graduation: December 2014, GPA: 3.92*
  - B.S. in Computer Science, with High Honors**  
University of California, Santa Barbara  
*Date of Graduation: December 2013, GPA: 3.89*
- ♦ Professional Experience
  - Software Development Engineer Intern, Microsoft Corporation**  
*Bellevue, WA | June 2013 - September 2013*  
Evaluated profitability of new ad annotation through big data analysis under Bing Monetization. Created SCOPE and C# code to reduce, analyze, and iterate on big data sets as new constraints and goals for the feature were determined.
  - Software Development Engineer Intern, Microsoft Corporation**  
*Mountain View, CA | June 2012 - September 2012*  
Redeveloped features for the delivery engine of Microsoft adCenter's Contextual Ads product during a broad engineering redesign. Worked largely independently, communicating between four teams to recreate feature in new C++ and C# codebase.
- ♦ Projects
  - Octopi and LaPlaya**  
*March 2014 to December 2014 (MS Project)*  
<https://github.com/ucsb-cs-education/octopi-webapp>  
<https://github.com/ucsb-cs-education/laplaya>  
Ruby on Rails webapp created to teach 4<sup>th</sup> and 5<sup>th</sup> grade students programming and computational thinking concepts. Uses LaPlaya, a fork of Berkley's *Snap! BYOB* block based programming environment. Structured interfaces provide instructions and progress tracking to schools, teachers, and students as they move through a curriculum. Includes work with NodeJS, CoffeeScript, Resque, Redis, Postgres, Javascript, Heroku, and AWS.
  - CS290GChat**  
*Spring 2013*  
Created an iPhone Bluetooth chat app with an Objective-C implementation of elliptic curve Diffie-Hellman to provide symmetric key setup needed to encrypt the communication. Used the OpenSSL BIGNUM struct to perform the necessary multiple-precision arithmetic.
- ♦ Interests
  - ♦ Scalable Web Systems
  - ♦ Empowering Education
  - ♦ Streaming Media Systems
  - ♦ Connected Homes