

# RAHUL NATH

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## Education

Williams College, Williamstown, MA  
Glen Cove High School, Glen Cove, NY

*Computer Science and Economics; B.A. candidate, 2015*  
*Valedictorian of the Class of 2011*

## Work Experience

**Student Contractor – Naval Research Laboratory/Knex Research, Washington DC** *July 2014 – Sept. 2014*

- Accelerated and improved accuracy of abductive reasoning for autonomous agents by using a weighted Markov Logic Network as a constraint solver, facilitating goal-driven autonomy for the agent

**Software Engineering Intern – Mobiquity Inc, Wellesley, MA**

*May 2014 – July 2014*

- Researched uses and developed Android applications using iBeacons, Google Glass, and wearable tech
- Delivered presentation on iBeacons and wearable technology at annual AnDevCon Boston 2014
- Conceptualized the UX, UI, and business logic for prototype applications and pitched ideas to executive staff
- Utilized Amazon Web Services (EC2, DynamoDB, S3, Kinesis, and Cognito)

**Teaching Assistant – Williams College Computer Science Department**

*Sept. 2013 – Sept. 2014*

- CSCI 136: Data Structures and Advanced Programming
- Instructed and graded students on lab problems regarding data structures and advanced programming methods

**Software Researcher Intern – Middlebury Interactive Languages, Middlebury, VT**

*June 2013 – August 2013*

- Researched state-of-the-art speech recognition engines for company's language learning software
- Delivered suggestions to improve technology and business approach to CTO and debugged products

## Programming, Software, and Language Expertise

- Amazon Web Services Business Professional Accreditation
- **Software Tools Knowledge:** STATA | R | Excel | LaTeX | AWS | HTML/CSS
- **Technical Languages:** Python | Java | C | Lisp | Ruby on Rails | x86/ARM | Unix/Bash
- **Spoken Languages:** Spanish (Intermediate: R, W, S), Bengali (Fluent: S), French (Beginner: R, W, S)

## Major Research Papers

*“From Play to Work: The Effect of Youth Programs on High School Dropout Rates”*

*Sept. 2014 – Dec. 2014*

- Collected data from the Educational Longitudinal Survey and information from local high schools on dropout rates
- Developed multiple regression model to test association of youth program attendance and dropout rate reduction
- Results showed statistically significant *positive* association between youth program attendance and dropping out

*“Learning Domain Models from Partially Observed Action Sequences”*

*Sept. 2014 – Dec. 2014*

- Extended knowledge engineering algorithm to more accurately learn “rules” of games from action sequences
- Applicable to pattern recognition in stock market transactions or adversary intention0073

## Leadership and Academic Accomplishments and Activities

- Conceptualized and organized “Pay it Ephward” charity auction as freshman. Over \$3000 raised since inception.
- Dean's List at Williams College
- Class of 1960's Economics Scholar
- Co-Founder and President, Williams Strength Club *2014 – present*
- Developer, Williams Student Online Executive Board *2013 – present*
- The Williams Octet (a cappella group) *2013 – present*
- Webmaster, WCFM Radio Executive Board *2012 – present*
- Williams Debating Union *2012 – present*