

RAHUL NATH

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Education

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

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

Experience

Honors Senior Research – Williams College

“Learning Domain Models from Partially Observed Action Sequences” *Sept. 2014 – Dec. 2014*

- Leveraged Selenium, NLTK (text mining), multiprocessing, and WEKA to extend the LOCM knowledge engineering algorithm to learn domain models from sparse descriptions of action sequences in a single agent setting (*Python*)

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

- Reduced prepositional and word-sense ambiguity in interpreted speech using contextual information in conjunction with Naïve Bayes, Yarowsky’s algorithm, and other semi-supervised machine learning techniques (*Lisp, Python*)
- 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 (*Python*)
- Co-authoring paper, “Learning Action Models in a Multi-Agent Context”, with Matthew Molineaux (Knexus Research) and David Aha (NRL), detailing results of research for the Autonomous Squad Member project (ASM)

Software Engineering Intern – Mobiquity Inc, Wellesley, MA *May 2014 – July 2014*

- Integrated cutting edge technology like iBeacons, Google Glass, and Raspberry Pis into Android apps (*Java*)
- Solidified server-client interactions between devices for Mobiquity’s deltaIQ™ platform (*Node.js, Java*)
- Conceptualized the UX, UI, and business logic for prototype applications in the Innovations Lab (R & D)
- 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*

- Utilized CMU Sphinx4 to develop a speech recognition plugin for company’s language learning software (*Java*)
- Debugged products and documented improvements to the technology and business approach

Student Technology Consultant – Office of Informational Technology, Williams College *Sept. 2012 – Present*

- Diagnosed and solved software problems affecting the Williams College student community

Programming, Software, and Language Expertise

- **Main Languages:** Python | Java | C | Lisp
- **Experience in:** Ruby on Rails | Android App Dev | x86/ARM Assembly | Unix/Bash | Scala | ML
- **Skilled with:** STATA | R statistical software | LaTeX | Node.js | HTML/CSS | Git | AWS
- Amazon Web Services Business Professional Accreditation
- Bengali (*Fluent: S*), Spanish (*Beginner: R, W, S*), French (*Beginner: R, W, S*)

Activities, Leadership, and Academic Accomplishments

- Dean’s List at Williams College
- Class of 1960’s Economics Scholar
- Conceptualized annual “Pay it Forward Silent Auction” event.
Over \$3000 raised since inception. Proceeds go to the Berkshire Food Project
- 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*