RAHUL NATH

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Education
Williams College, Williamstown, MA   *Computer Science and Economics; B.A. candidate, 2015*
Glen Cove High School, Glen Cove, NY   *Valedictorian of the Class of 2011*

Academic Projects
Honors Senior Research: *"Learning Domain Models from Partially Observed Action Sequences"*   *Sept. 2014 – Dec. 2014*
- Performed research on extending extant algorithms that learn domain models from partially observed intermediate state information to also learn from sparse descriptions of action sequences. See website for details

WARM Emulator   *Sept. 2013 – Dec 2014*
- Wrote a virtual emulator for the WARM assembly (RISC, ARM-like) instruction set entitled WAVE using the WIND (CISC, x86-64-like) assembly instruction set.

Experience
Student Contractor: *Naval Research Laboratory, Washington DC*   *July 2014 – Sept. 2014*
Autonomous Squad Member project (ASM): Conducted application-oriented artificial intelligence research in word sense and structural disambiguation algorithms and automated planning
    Co-authored paper with David Aha of the Naval Research Lab and Matthew Molineaux of Knexus Research

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
    Conceptualized the UX, UI, and business logic for prototype applications following AGILE methodologies
    Utilized Amazon Web Services (EC2, DynamoDB, S3, Kinesis, and Cognito).

Teaching Assistant: *Williams College Computer Science Department*   *Sept. 2013 – Sept. 2014*
Instructed students through lab problems and answered questions regarding data structures and algorithms

Software Researcher Intern: *Middlebury Interactive Languages, Middlebury, VT*   *June 2013 – August 2013*
Researched and developed a prototype recognition program using CMU Sphinx4 for the company's software
Debugged products and suggested improvements to the technology and business approach

Student Technology Consultant: *Office of Informational Technology at Williams*   *Sept. 2012 – Present*
Diagnosed and troubleshot software problems affecting the Williams College student community

Concert Manager Assistant: *Williams College Music Department*   *Sept. 2011 – Present*
Handled instrumentation, lighting, seating, and advertising for upcoming music events

Canvasser and Organizer: *Long Island Progressive Coalition, Massapequa, NY*   *July 2010 – Nov. 2010*
Empowered residents to hand-write letters in support of quality affordable housing initiatives on Long Island.
Helped organize Walk for Education for Wyandanch School District

Programming, Software, and Language Expertise
Main Languages: Python, Java, C, and Lisp
Proficiency in: Ruby on Rails, Android App Dev, Node.js, HTML/CSS, x86/ARM Assembly, Unix/Bash, Scala, & ML
Skilled with: STATA and R statistical software, LaTeX, and Microsoft's Word, Excel, and PowerPoint
Amazon Web Services Business Professional Accreditation
Bengali *(Fluent: S)*, Spanish *(Beginner: R, W, S)*, French *(Beginner: R, W, S)*

Activities, Leadership, and Academic Accomplishments
Class of 1960's Economics Scholar
Dean's List at Williams College
Co-Founder and President; Williams Strength Club   2014 – present
Williams Student Online Executive Board; Moderator   2013 – present
The Williams Octet (a cappella group)   2013 – present
WCFM Radio Executive Board; Webmaster   2012 – present
Conceptualized and organized annual "Pay it Ephward Silent Auction" event.
Over $3000 raised since inception. Proceeds go to the Berkshire Food Project.