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*

Experience

Honors Senior Research*:*
"Learning Domain Models from Partially Observed Action Sequences"   *Sept. 2014 – Dec. 2014*
- I extended extant algorithms that learn domain models from partially observed intermediate state information to also learn from sparse descriptions of action sequences for the purposes of more informed automated planning

Student Contractor*: Naval Research Laboratory/Knexus Research, 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
Explored the role of contextual information in reducing prepositional ambiguity in interpreted speech
Co-authored paper with David Aha (NRL) and Matthew Molineaux (Knexus) on automated planning algorithm

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
Contributed to Mobiquity's deltaIQ^{TM} platform by solidifying server-client interactions between devices
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 regarding data structures, algorithms, and advanced programming methods

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
Developer on Williams Student Online Executive Board   2013 – present
The Williams Octet (a cappella group)   2013 – present
Webmaster on WCFM Radio Executive Board   2012 – present
Conceptualized annual "Pay it Ephward Silent Auction" event.
Over $3000 raised since inception. Proceeds go to the Berkshire Food Project.