

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

Relevant Work Experience

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

- Implemented a tool that reduces the time required for autonomous agents to acquire action models from exponential to polynomial, making it feasible to automate the process of knowledge acquisition (*Python*)
- Follow up research consisted of designing an algorithm to reduce prepositional and word-sense ambiguity in interpreted speech using contextual information and semi-supervised machine learning techniques (*Lisp, 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*

- Implemented communication and data collection between an EC2 server instance and an Android application for Mobiquity's deltaIQ™ platform, which forms the basis of their entire health monitoring service (*Java, Node.js, AWS*)
- Implemented the UX, UI, and business logic for Android apps that use cutting edge tech, like iBeacons and Google Glass
- 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

Completed Projects

Honors Senior Research – Adviser, Andrea Danyluk

- "Learning Domain Models from Partially Observed Action Sequences"* *December 2014*
- Leveraged Selenium, NLTK (text mining), multiprocessing, and WEKA to extend the LOCM knowledge engineering algorithm to learn static predicates for domain models from sparse descriptions of action sequences (*Python*)

Medicost – MIT Hacking Medicine Hackathon *November 2014*

- Created a website that makes it easy to see the cost requests made by doctors to insurance companies, helping those without insurance to anticipate costs of various procedures (*Django, Python, JQuery*)

Queuer – Williams College *January 2014*

- Created an Android application that allows people to keep track of different tasks they have to do and allows them to manage their completion. It utilizes Volley, GSON, OAuth, and SQLite. (*Java*)

Programming, Software, and Language Expertise

Main Languages: Python | Java | C | Lisp

Experience with: MEAN Stack | Django | Android App Dev | JQuery | Unix/Bash | x86/ARM Assembly

Skilled with: STATA | R | LaTeX | 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
- Created annual charity event, "Pay it Ephward Silent Auction" – over \$3000 raised for 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*