

RAHUL NATH

Cell: (516)-491-9232 | Email: rahul.nath.eph@gmail.com | Website: <http://rahul-nath.github.io>

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

Course Manager – Udacity Inc., Mountain View, CA

August 2015 – Present

- Develop internal programmatic tools to gather data on student metrics and automate efforts to assist students. I've used a variety of tools to this end, such as Docker, Chartio, and AWS Redshift.
- Teach students key elements in programming using Python, Swift, Java, Google App Engine, HTML/CSS, PostgreSQL, MySQL, Javascript, and other skills.
- Create Webcast sessions and authored several lesson notes for students
- Manage relations between our students and our fleet of talented code reviewers

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 deltaQ™ 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

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*)

Programming, Software, and Language Expertise

- **Main Languages:** Python | Java | C | Lisp
- **Experience with:** Flask | Android | GAE | Unix/Bash | x86/ARM Assembly
- **Skilled with:** Docker | 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