

# Rahul Nath

Website/Blog: <http://therahulnath.com> | Email: [rahul.nath.eph@gmail.com](mailto:rahul.nath.eph@gmail.com)  
Cell: 516.491.9232 | Github: [rahul-nath](https://github.com/rahul-nath)

## EDUCATION

### Georgia Tech

M.S. IN COMPUTER SCIENCE  
Candidate, Part-Time | [OMSCS](#)  
Specialization in Machine Learning

### Williams College

B.S. IN COMPUTER SCIENCE  
B.A. IN ECONOMICS  
June 2015 | Williamstown, MA  
Dean's List, Class of 1960 Economics Scholar

### Glen Cove HS, Valedictorian

June 2011 | Glen Cove, New York

### Relevant Coursework

Machine Learning for Trading  
Hadoop and MapReduce (Udacity)  
Data Visualization and Analysis  
Data Structures & Algorithms (Also T.A'd)  
Information Security

## SKILLS

### Technical

#### Primary Languages

Python • Javascript (ES6+)

#### Data Skills

SQL • Pandas • NumPy  
R • scikit-learn • BeautifulSoup  
Hadoop/MapReduce (CDH, Cloudera)  
D3.js • PostgreSQL

#### Back-End

Flask • SQLAlchemy • InfluxDB  
Pytest • NodeJS • SequelizeJS  
Koa • PassportJS • PostgreSQL  
Server-Side Rendering (Jinja)

#### Dev-Ops Exposure

Docker • NGINX • Kubernetes  
GCP • Vagrant • Redis  
Unix/Linux • AWS EC2, S3

### Spoken Languages

Bengali (Intermediate Proficiency)  
Spanish (Intermediate Proficiency)  
French (Beginner Proficiency)

## EXPERIENCE: JULY 2014 - PRESENT

### SEG Universe/Digit Bazaar | SOFTWARE ENGINEER

- Specializing in Machine Learning and web development.

### Pillar Technologies | FULL-STACK SOFTWARE ENGINEER

- Owned development of a supply-chain management system to manage IoT device deployments, shipments, and physical locations.
- Generated time-series data visualizations of onsite resource uptime.
- Discovered API optimizations that reduced fetches by 50%.

### WorkRails | FULL-STACK SOFTWARE ENGINEER

- Developed APIs, data models, and UI features, end-to-end.
- Owned development of custom company logins, SSO, calendar export, and contractor work assignment, bringing in over \$20k in MRR.

### Udacity | COURSE MANAGER/SOFTWARE DEV

- Owned development of a Python cron job that pulled, cleaned and stored YouTube metadata using AWS Redshift, then pipelined into Chartio for company-wide accessibility.
- Created webcast teaching sessions and content for the Machine Learning, DevOps & Android Basics Nanodegrees.

### Naval Research Laboratory | A.I. RESEARCH INTERN

- Implemented a tool in Python that generates action models in polynomial time – previously an intractable problem – expanding the planning domain of environments for an A.I. agent to acquire knowledge.
- Designed and implemented an algo to resolve prepositional ambiguity in interpreted speech using contextual info collected from sensor data.

## PROJECTS

### [PrePost2](#)

- Using selenium, multiprocessing pools, and BeautifulSoup, I created a webscraper to collect documents and increase the accuracy of environment domain models by 25%. Domain models are used by A.I. agents to plan actions.

### [Trading Algorithms](#)

- A repository of machine learning tools I wrote for graduate school and have extended to aid in exploring alpha in the stock market. (Pandas, NumPy, Deep Learning)

### ["Predicting Boston Housing Prices" \(Udacity\)](#)

- I evaluated the performance and predictive power of a model that has been trained and tested on data collected from homes in Boston suburbs.

### ["From Play to Work: Effect of Youth Programs on Dropout Rates" \(Term Paper\)](#)

- I used dprobit regression to explore the effect of extracurricular program attendance on the likelihood of dropping out of high school for at-risk students.

### [Medicost](#) (MIT Hack Medicine Team, 24-hr hackathon)

- Created a website to search for specialist doctors and procedure costs using public insurance claims data from the Department of HHS. (Pandas, Flask)