

Rahul Nath

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EDUCATION

Georgia Tech

M.S. IN COMPUTER SCIENCE

Expected June 2018 | [OMSCS](#)

Specialization in Machine Learning

Udacity

N.D. IN MACHINE LEARNING

Expected December 2016 | Udacity

Williams College

B.S. IN COMPUTER SCIENCE

B.A. IN ECONOMICS

June 2015 | Williamstown, MA

Class of 1960's Economics Scholar

Dean's List

GCHS, Valedictorian

June 2011 | Glen Cove, New York

SKILLS

Programming

Main Languages:

Python • SQL • C • Java

Familiarity with:

Scala • C++ • Javascript • Lisp

Recent Experience with:

scikit-learn • pandas/numpy
PostgreSQL • AWS EC2/Redshift •
HTML/CSS • Unix/Bash

Past Experience with:

R • x86/ARM Assembly • STATA •
Node.js • WEKA • Selenium

Third-Party Tools:

Chartio • Optimizely A/B • Slack • Git
• JIRA • Trello • Asana • Reflektiv

Spoken Languages

Spanish (Intermediate Proficiency)

French (Beginner Proficiency)

Bengali (Intermediate Proficiency)

COURSEWORK

High Performance Parallel Algorithms

Data Structures and Algorithms

(Also served as Teaching Asst)

Abstract Algebra

Econometrics and Data Analysis

EXPERIENCE

Udacity | MACHINE LEARNING COURSE MANAGER

Aug 2015 – July 2016 | Mountain View, CA

- Re-invented Intro to Programming Nanodegree (IPND) into exploratory program to other NDs, increasing student enrollment by over 20% – the fastest growing ND at Udacity.
- QA'd and created content for Machine Learning, DevOps & Android Basics. Taught use of iPython/Jupyter Notebooks, pandas, and sk-learn.
- Created webcast teaching sessions and authored lessons on virtualization and Python optimization constructs.

Naval Research Laboratory | SUMMER CONTRACTOR

July 2014 – Sept 2014 | National Harbor, MD

- Implemented a tool in Python for A.I. robot to learn actions in polynomial time – a previously intractable problem – making it feasible to automate the process of knowledge acquisition.
- Designed and implemented an algorithm in Lisp and Python to reduce prepositional and word-sense ambiguity in interpreted speech using contextual information and machine learning.

Mobiquity | ANDROID DEVELOPER INTERN

May 2014 – July 2014 | Wellesley, MA

- Implemented communication and data collection between an Amazon EC2 server instance and an Android application for Mobiquity's deltaIQ platform, which forms the basis of their health monitoring service. Also used Node.js.
- Created the UX, UI, and business logic for an indoor navigation app using iBeacons, Google Glass, and AWS EC2, DynamoDB, S3, Kinesis, and Cognito.

PROJECTS

YouTube Data Pull

- Automated student YouTube data collection for all of Udacity. Wrote Python cron job that queried YouTube Analytics servers collecting over 8,000,000 data points, formatted data, stored data on Udacity's AWS RedShift server, and pipelined it into Chartio as a data source.

PrePost2

- Using selenium, multiprocessing pools, and BeautifulSoup, I created a webscraper to collect documents with sparse descriptions of action sequences. Docs were used to learn static predicates to generate domain models, making domain models 25% more accurate for automated planning engines.

"Predicting Boston Housing Prices"

- Evaluated the performance and predictive power of a model that has been trained and tested on data collected from homes in suburbs of Boston, Massachusetts. Model was then used to predict the price of said homes.

"From Play to Work: Effect of Youth Programs on Dropout Rates"

- An econometric study I performed exploring the possibility that attendance of extracurricular programs intended to motivate and engage students – including youth programs and dropout prevention programs – is associated with a lower likelihood of dropping out for at-risk students. Analysis available upon request.