Rahul Nath

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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

GCHS, 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

Programming

Primary Languages (1000+ lines):
Python • Javascript

Experience with:
Java • x86 Assembly • C

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

Back-End:
NodeJS • SequelizeJS • Koa
Flask • SQLAlchemy • PassportJS
Nginx • GCP DataStore

Dev-Ops:
Docker • Kubernetes • Apache
Wercker • Quay • Vagrant
AWS EC2, S3, Redshift

Spoken Languages

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

EXPERIENCE

WorkRails Inc. | Software Engineer
July 2017 – Present | New York, NY

- I work within the React/Redux frontend and NodeJS backend. I design and implement UX features, APIs, data models, & DevOps.
- Developed partner custom login and SSO, calendar, work routing, and Developer API features, bringing in over $20k in MRR.
- Decreased our production deployment time by 30% by parallelizing pipelines of independent deployed clusters.

Udacity | Course Manager/Software Dev
Aug 2015 – July 2016 | Mountain View, CA

- Re-invented Intro to Programming Nanodegree (IPND) into exploratory program to other courses, increasing its enrollment by over 20%.
- Automated student YouTube data collection for all Nanodegree webcasts. I wrote a Python cron job that pulled, formatted and stored the data using AWS Redshift. Data then pipelined into Chartio for company-wide accessibility.

Naval Research Laboratory | Contractor
July 2014 – Sept 2014 | National Harbor, MD

- 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 algorithm in Lisp and Python to resolve prepositional and word-sense ambiguity in natural language processing using collected contextual information.

Mobiquity | Android Developer Intern
May 2014 – July 2014 | Wellesley, MA

- Helped implement health data collection for Mobiquity's deltaIQ Android application. Used Amazon Kinesis EC2 and Android (Java).
- Designed and implemented a prototype of an indoor navigation application using Node.js, iBeacons, Google Glass, and AWS (EC2, S3, Kinesis, and Cognito).

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)