Rahul Nath

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Georgia Tech
M.S. in Computer Science
August 2016 | [OMSCS](#)

Specialization in Machine Learning (Incomplete)

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
Database Systems Concepts & Design
Information Security
Data Structures & Algorithms (Also T.A.'d)
Data Visualization and Analysis
Machine Learning for Trading
Human Computer Interaction

SKILLS
Technical

Primary Languages
Python • Javascript (ES6+)

Query Languages
SQL • InfluxQL • Google DataStore

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

Infrastructure Exposure
TCP/IP • Docker • NGINX
Kubernetes • Virtualbox/Vagrant
Redis • Unix/Linux • GCP
AWS EC2, S3 • Elasticsearch

Front-End
React • Redux • React Native
HTML/CSS • Sagas • Jest/Enzyme
BeautifulSoup • D3.js

Spoken Languages

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

OPEN-SOURCE
- [Election XML Validator](#)

EXPERIENCE

Google (via Scopus IT) | Solutions Engineer | 06/19 - Now
- Scale and deploy voter registration and live election results products.
- Develop features for XML feed validator (Python).

Pillar Technologies | Software Engineer | 05/18 - 05/19

- Owned development of a supply-chain management system to manage IoT device deployments, shipments, and physical locations.
- Worked on React Native onsite inventory management scanning app.
- Generated time-series queries (InfluxDB), data viz (D3.js), & Redis workers for onsite resource uptime data (GBs of data collected weekly).
- Discovered API optimizations that reduced fetches by 50%.

WorkRails | Software Engineer | 07/17 - 12/17
- Second-hire engineer. Wrote APIs, data models, and UI features, end-to-end in React/Node microservices-based environment.
- Owned development of custom company logins, SSO, calendar export, and contractor work assignment, bringing in over $20k in MRR.

Udacity | Course Manager/Software Dev | 08/15 - 07/16
- 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.
- Re-invented the Intro to Programming Nanodegree into exploratory program to other courses, increasing enrollment by over 20%.

Naval Research Laboratory | A.I. Research Intern | 06/14 - 09/14
- 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.

Other Technical Experience | Contract, Pro-Bono Developer
- Code Reviewer for Udacity Nanodegrees (07/16 - 07/17)
- Scraped and performed analysis on donor info data to pass measures on universal healthcare as a volunteer developer for Fight For the Future.

PROJECTS
[urDiary](#)
- Developing an open-source Medium-like blog to help others record thoughts and experiences with the ability to dynamically organize their posts using special syntax. Leveraging React, Draft.js, Flask, and PostgreSQL

[PrePost2](#)
- Using selenium, multiprocessing pools, and BeautifulSoup, I created a parallelized webscraper to collect documents and increase baseline accuracy of environment domain model generation by 25%. These domain models are used by A.I. agents to plan its actions.

[Rentbot](#)
- Developed a chatbot designed to help SF residents learn their rights as tenants. Utilized Flask, Google App Engine, and Pandorabots API.