Rahul Nath

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EDUCATION

Georgia Tech
M.S. in Computer Science
August 2016 | OMSCS
(Incomplete)
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
Database Systems Concepts & Design
Information Security
Data Structures & Algorithms (Also T.A.'d)
Data Visualization and Analysis
Machine Learning for Trading
Human Computer Interaction

OPEN-SOURCE

NIST Validator
Open Civic Data

SKILLS

Primary Languages
Python • Javascript

Query Languages
SQL • InfluxQL • Google DataStore

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

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

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

EXPERIENCE

Google via Scopus IT | Solutions Engineer | 06/19 - 01/20
- Wrote scripts to create large config files for election results on Search.
- Developed features and unit tests for NIST's CDF XML feed validator.
- Worked with news agencies to develop country-specific demos.

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.
- 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 a React/Node microservices-based environment.
- Owned development of authentication system, SSO, calendar export, and contractor work assignment, bringing in over $20k in MRR.

Udacity | Course Manager/Software Dev | 08/15 - 07/16
- Developed ETL for YouTube metadata using Python to pull and clean, AWS Redshift to store, and Chartio to access company-wide.
- 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.

PROJECTS

Buddha Health
- A pill management app for my father. Locally deployed, it helps him track his frequent med changes. Uses React, Ant Design, Flask, and PostgreSQL.

urDiary
- An open-sourced, dynamically categorizing online reflection journal. Uses React, Material UI, Draft.js, Flask, and PostgreSQL. Hosted on Heroku and Zeit.

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.