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

Select 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
MongoDB • PyMongo • NoSQL
Pytest • NodeJS • SequelizeJS
Koa • PassportJS • PostgreSQL

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
- Developed Python/bash scripts to generate Search result config files.
- Coded XML feed validator rules for NIST election formatted data.
- Brought unit test coverage from 0 to 99% (PyTest).

Pillar Technologies | Software Engineer | 05/18 - 05/19
- Owned development of a supply-chain management system to manage IoT device inventory & shipments (PostgreSQL, Flask, Docker, React).
- Generated time-series queries (InfluxDB), data visualizations (Ant Design, D3.js), & Redis workers for GBs of onsite device uptime data.
- Optimized API to reduce DB fetches by 50% (SQLAlchemy).

WorkRails | Software Engineer | 07/17 - 12/17
- Second-hire engineer. Wrote APIs & data models (SequelizeJS), UI features (React) and Node.js microservices (NGINX, Koa, Ingress).
- Owned development of auth system (PassportJS), SSO, calendar export, and contractor work assignment, bringing in over $20k in MRR.
- Cut codebase in half over time. Took a 10k line file to 4500 in 1st week.

Udacity | Course Manager/Software Dev | 08/15 - 07/16
- Developed ETL for YouTube data 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
- Wrote scripts that generate action models for A.I. agents to improve knowledge and planning domain from intractable to polynomial time.
- 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 and his doctors track frequent med and vital changes. Uses React, MongoDB & Flask.

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.