

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 Python/bash scripts to generate Search result config files..
- Developed features and unit tests for NIST's CDF XML feed validator.
- Worked with business partners to spin up custom Search result 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.