Rahul Nath

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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

Familiar With
C • x86 Assembly • Java

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

Dev-Ops Exposure
Docker • NGINX • Kubernetes
GCP • Vagrant • Redis
Unix/Linux • AWS EC2, S3

Front-End
React • Redux • HTML/CSS
Sagas • Jest • BeautifulSoup

Data Science Tools
Numpy • Sklearn
Pandas • Chartio

Spoken Languages

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

EXPERIENCE: JULY 2014 - PRESENT

Pillar Technologies | Full-Stack Software Engineer
- Owned development of a supply-chain management system to manage IoT device deployments, shipments, and physical locations.
- Generated time-series data visualizations of onsite resource uptime.
- Discovered API optimizations that reduced fetches by 50%.

WorkRails | Full-Stack Software Engineer
- Developed APIs, data models, and UI features, end-to-end.
- Owned development of custom company logins, SSO, calendar export, and contractor work assignment, bringing in over $20k in MRR.

Udacity | Course Manager/Software Dev
- 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%.
- Created webcast teaching sessions and content for the Machine Learning, DevOps & Android Basics Nanodegrees.

Naval Research Laboratory | A.I. Research Intern
- 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.
- Developed a chatbot to help SF tenants learn their rights as volunteer developer for Generation Citizen.
- 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, 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.

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.