

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 • 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 • HTML/CSS

Sagas • Jest/Enzyme • BeautifulSoup

Misc. Tools

JIRA/Confluence • Clubhouse

Kibana • Chartio • Git/SVN • Asana

Spoken Languages

Bengali (Intermediate Proficiency)

Spanish (Intermediate Proficiency)

French (Beginner Proficiency)

EXPERIENCE

Pillar Technologies | FULL-STACK SOFTWARE ENGINEER | 05/18 - Now

- 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 | SOFTWARE ENGINEER | 07/17 - 12/17

- Microservices environment. Picked up React and Node on-the-job.
- Developed RESTful 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 | 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%.
- Authored lessons on virtualization for tech and non-tech students.

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)
- Developed a [chatbot](#) to help SF tenants learn their rights as volunteer developer for Generation Citizen (08/16)
- Scraped and performed analysis on donor info data to pass measures on universal healthcare as a volunteer developer for Fight For the Future (01/17 - 04/17)

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.

[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.