

# Rahul Nath

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## EDUCATION

### Williams College

B.S. IN COMPUTER SCIENCE

B.A. IN ECONOMICS

June 2015 | Williamstown, MA

Dean's List, Class of 1960 Economics Scholar

### GCHS, Valedictorian

June 2011 | Glen Cove, New York

### Relevant Coursework

Machine Learning for Trading

Data Visualization and Analysis

Data Structures & Algorithms (Also T.A'd)

Human Computer Interaction

Information Security

## SKILLS

### Programming

Primary Languages (1000+ lines):

Python • Javascript • SQL

Familiarity with:

C • x86 Assembly • Java

Front-End Experience:

ReactJS • Redux • webpack

React Native • Jinja2 • MaterialUI

React-Router • DraftJS •

BeautifulSoup • Bootstrap

Back-End:

NodeJS • SequelizeJS • Koa

PassportJS • PostgreSQL • Nginx

Flask • Django • SQLAlchemy

GAE • Firebase

Dev-Ops:

Docker • Kubernetes • Apache

Wercker • Vagrant • AWS

Other Skills

Git/SVN • Linux

### Spoken Languages

Spanish (Intermediate Proficiency)

French (Beginner Proficiency)

Bengali (Intermediate Proficiency)

## EXPERIENCE

### Civic | SOFTWARE ENGINEER

January 2017 - Present | Remote

- Volunteer Engineer on a team building a holistic platform for voter registration.
- Leveraging React Native and Firebase.

### WorkRails | SOFTWARE ENGINEER

July 2017 - December 2017 | New York, NY

- Full Stack Engineer for a venture-backed startup with clients.
- Developed UI features using React/Redux and implemented APIs and data models with NodeJS and Sequelize ORM. Managed products end-to-end.
- Features created include custom login, SSO, calendar export, work routing, and Developer API features, bringing in over \$20k in MRR.

### Misc. Technical Roles July 2016 - July 2017 | New York, NY

- Code Reviewer for Udacity courses (contract work)
- 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 in NY as a volunteer developer for Fight For the Future

### Udacity | COURSE MANAGER/SOFTWARE DEV

Aug 2015 - July 2016 | Mountain View, CA

- Re-invented Intro to Programming Nanodegree (IPND) into exploratory program to other courses, increasing its enrollment by over 20%.
- Automated student YouTube data collection for all Nanodegree webcasts. I wrote a scheduled Python script that pulled, cleaned, and stored video metadata. Data stored in Redshift, accessed through Chartio.

### Naval Research Laboratory | STUDENT CONTRACTOR

July 2014 - Sept 2014 | National Harbor, MD

- Implemented an algorithm 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 algorithm in Lisp and Python to resolve prepositional ambiguity in interpreted speech using contextual information collected from sensor data.

## PROJECTS

### [uDiary](#)

- 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 ReactJS, Flask, PostgreSQL, and Draft.js

### [PrePost2](#)

- Using selenium, multiprocessing pools, and BeautifulSoup, I created a parallelized webscraper to collect documents and increase the accuracy of environment domain models 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 Dept of Health & Human Services.