Rahul Nath

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Last Updated on 4th September 2016

EDUCATION

GEORGIA TECH
M.S. in Computer Science (Part-Time)
Expected June 2018 | Atlanta, GA
Specialization in Machine Learning

UDACITY
N.D. in Full-Stack WebDev
Expected December 2016 | Udacity

WILLIAMS COLLEGE
B.S. in Computer Science
B.A. in Economics
June 2015 | Williamstown, MA
Class of 1960's Economics Scholar
Dean's List

GCHS, VALEDICTORIAN
June 2011 | Glen Cove, New York

SKILLS

PROGRAMMING
Main Languages:
Python • SQL • Java • C

Recent Experience with:
HTML/CSS • Google App Engine • Unix/Bash • Docker • Vagrant • AWS EC2/Redshift • PostgreSQL • Chef

Past Experience with:
Selenium • Ruby on Rails • Javascript • Node.js • Heroku

Third-Party Tools:
Chartio • Optimizely A/B • Slack • Git • JIRA • Trello • Asana • Reflektiv

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

COURSEWORK

High Performance Parallel Algorithms
Data Structures and Algorithms
(Also served as Teaching Asst)
Operating Systems
Mobile Application Development

EXPERIENCE

UDACITY | Developer & Course Manager
Aug 2015 – July 2016 | Mountain View, CA

- Developed Udacity's first student-to-student video platform with integrated Slack orientation bot. Leveraged Python, Google App Engine, and Ruby on Rails. Slack orientation bot would introduce students in the Intro to Programming Nanodegree to Udacity resources.
- Automated student YouTube data collection. Set up Python cron job that queries YouTube Analytics servers for data, formats data, and stores data on company AWS RedShift server, pipelining data into Chartio.
- Created webcast teaching sessions and authored lessons on virtualization and other topics. Helped students through projects for Intro to Programming and Machine Learning Nanodegrees.

NAVAL RESEARCH LABORATORY | Summer Contractor
July 2014 – Sept 2014 | National Harbor, MD

- Implemented a tool that reduces the time required for autonomous agents to acquire action models from exponential to polynomial, making it feasible to automate the process of knowledge acquisition.
- Further research consisted of designing an algorithm to reduce prepositional and word-sense ambiguity in interpreted speech using contextual information and semi-supervised machine learning techniques.

MOBIQUITY | Android Developer Intern
May 2014 – July 2014 | Wellesley, MA

- Implemented communication and data collection between an Amazon EC2 server instance and an Android application for Mobiquity's deltaIQ platform, which forms the basis of their health monitoring service (Java, Node.js, AWS)
- Implemented the UX, UI, and business logic for Android apps that use cutting edge tech, like iBeacons and Google Glass
- Utilized Amazon Web Services (EC2, DynamoDB, S3, Kinesis, and Cognito)

WILLIAMS COLLEGE HONORS RESEARCH Sept 2014 – Dec 2014 | Williamstown, MA

- PrePost2. Leveraged NLTK text mining to learn static predicates for domain models from sparse descriptions of action sequences, making domain models 25% more accurate for automated planning engines. (Python)

PROJECTS

Medicost
- Created website to easily search cost requests and receipts made by doctors to insurance companies, along with other information regarding the doctor's practice. Data was scraped from the Dept. of Health and Human services.

The People's Lobby
- Website to engage citizenry in legislative process. (In development.)

Virtual Assembly Emulation
- Wrote a virtual emulator for a RISC assembly instruction set, WARM, using a CISC assembly instruction set, WIND. Designed a JIT to optimize performance.