Rahul Nath

http://therahulnath.com | rahul.nath.eph@gmail.com
516.491.9232 | Github:/rahul-nath

Last Updated on 29th 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 Android Development
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:
Java • SQL • C • Python

Recent Experience with:
Android • Unix/Bash • HTML/CSS • AWS EC2 • PostgreSQL

Past Experience with:
x86/ARM Assembly • Javascript • Node.js • Heroku

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

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

COURSEWORK

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

EXPERIENCE

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

- Generated project rubrics for Android Basics Nanodegree. Also created webcast teaching sessions and authored lessons on virtualization.
- Developed internal software, such as automating student YouTube data collection, student-to-student video interfacing platform, and integrated Slack orientation bot for over 2,000 students involved in the Intro to Programming Nanodegree.
- Managed fleet of over 50 code reviewers for Intro to Programming Nanodegree.

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

- Implemented a tool in Python that reduces the time required for A.I. robot to learn actions from exponential to polynomial time. Reducing the processing time made it feasible to automate the process of knowledge acquisition.
- Designed and implemented an algorithm in Lisp and Python to reduce prepositional and word-sense ambiguity in interpreted speech using contextual information and machine learning.

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 Used Java, Node.js, and AWS.
- Implemented the UX, UI, and business logic for indoor navigation app that using iBeacons, Google Glass and AWS EC2, DynamoDB, S3, Kinesis, and Cognito.

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

- PrePost2. Using selenium, multiprocessing pools, and BeautifulSoup, I created a webscraper to collect documents with sparse descriptions of action sequences. Docs were used to learn static predicates to generate domain models, making domain models 25% more accurate for automated planning engines. (Python)

PROJECTS

Ocula
- Android application that lets users share photosphere pictures with each other via a central hub. Exploring the use of Google's new VR SDK. (In development.)

Queuer
- Android application that generates daily to-do lists from a categorized backlog.

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.

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.