Rahul Nath

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

EDUCATION

Georgia Tech
M.S. IN COMPUTER SCIENCE
Part-Time | OMSCS
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
Dean's List, Class of 1960 Economics Scholar

GCHS, Valedictorian
June 2011 | Glen Cove, New York

Relevant Coursework
Mobile Application Development
Data Structures & Algorithms (Also T.A.'d)
Operating Systems

SKILLS

Programming
Main Languages:
Java • SQL • C • Python

Familiarity with:
C++ • Javascript • Scala • Lisp

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

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

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

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

OPEN-SOURCE

• String matching: Fuzzy-Wuzzy

EXPERIENCE

Udacity | COURSE MANAGER
Aug 2015 – July 2016 | Mountain View, CA
- Re-invented Intro to Programming Nanodegree (IPND) into exploratory program to other NDs, increasing student enrollment by over 20% – the fastest growing ND at Udacity.
- QA'd and created content for Android Basics, DevOps & Machine Learning.
- Created webcast teaching sessions and authored lessons on virtualization and Python optimization constructs. Created grading rubric for Android Basics.

Naval Research Laboratory | CONTRACTOR
July 2014 – Sept 2014 | National Harbor, MD
- Implemented a tool in Python for A.I. robot to learn actions in polynomial time – a previously intractable problem – making it feasible to automate the process of environment knowledge acquisition.
- Designed and implemented an algorithm in Lisp and Python to reduce prepositional and word-sense ambiguity in interpreted speech using contextual information.

Mobiquity | ANDROID DEVELOPER INTERN
May 2014 – July 2014 | Wellesley, MA
- Implemented communication and data collection between an EC2 server and an Android application for Mobiquity's deltaIQ platform, which now forms the basis of their health monitoring service.
- Created the UX, UI, and business logic for an indoor navigation app using iBeacons, Google Glass, and AWS EC2, DynamoDB, S3, Kinesis, and Cognito.

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.

YouTube Data Pull
- Automated student YouTube data collection for all of Udacity. I wrote a Python cron job that queried YouTube Analytics servers collecting over 8,000,000 data points. I then formatted and stored the data on Udacity's AWS RedShift server, and pipelined it into Chartio as a data source for analysis.

Virtual Assembly Language Emulation
- I wrote a virtual emulator for a RISC assembly language using a CISC assembly language. I made a JIT compiler to optimize, finding a trade-off of 26 CISC instructions for every RISC instruction.

Medicost (MIT Hack Medicine Team, 24-hr hackathon)
- Created website to easily search cost requests and receipts made by doctors, standardizing medical procedure costs for over 44 million Americans without medical insurance. This project used Django, Grunt, JQuery, and Bootstrap.