Rahul Nath

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EDUCATION

Georgia Tech
M.S. IN COMPUTER SCIENCE
Expected June 2018 | 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
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

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)

COURSEWORK

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

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 | SUMMER 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 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. Also used Node.js.
- 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. Wrote Python cron job that queried YouTube Analytics servers collecting over 8,000,000 data points, formatted data, stored data on Udacity's AWS RedShift server, and pipelined it into Chartio as a data source.

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.