

# Rahul Nath

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## 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.
- Managed fleet of code reviewers for Intro to Programming Nanodegree.

### 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 (Python)
- 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 (Lisp, Python)

### 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

#### 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.