Raghunathan Adithya

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EDUCATION

Duke University, Pratt School of Engineering *Expected Graduation: May 2018*[1]

MAJOR: BSE, Electrical & Computer Engineering & BS, Computer Science (Double Major)

CURRENT CUMULATIVE GPA: 4.0 (Dean's List With Distinction, All Semesters)

STANDARDIZED TESTING SCORES: SAT 1 – 2340, SAT II (Subject Tests) – 2400

RELEVANT COURSEWORK (Refer to Transcript for Full Coursework): Data Structures & Algorithms (Java), Computational Methods (MATLAB), Fundamentals of ECE (Arduino), Artificial Intelligence (Python), Linear Algebra, Computer Architecture (C, MIPS), Microelectronics; Digital Systems (Verilog), Operating Systems (Unix, C, C++); Current: Distributed Information Systems (Scala), Design & Analysis of Algorithms

TECHNICAL SKILLS

PROGRAMMING LANGUAGES: Java (Proficient), Python (Proficient), JavaScript (Proficient), MATLAB (Proficient), R (Proficient), Arduino (Proficient), Ruby (Intermediate), C (Proficient), C++ (Intermediate), SQL (Basic), MIPS Assembly (Proficient)

FRAMEWORKS & SKILLS: NodeJS, Angular JS & Express, Ruby on Rails, Selenium Webdriver, Web Scraping

GitHub: https://github.com/Adithya93

WORK EXPERIENCE

- Software Engineer Intern, Yahoo *Summer 2016*
- Machine Learning Associate Intern – Newcleus Predictive Analytics – Singapore *Summer 2015*
    - Developed a library of programs in Python, JavaScript (NodeJS & Selenium Webdriver) and R to obtain, integrate and process comprehensive information about business leads for augmenting Machine Learning algorithms
- Teaching Assistant – Duke Computer Science Department – Computer Architecture *Spring 2016*
    - Lead recitations for class of 20 – 40 undergraduate CS students
    - Answer students' questions through in-person office-hours and online forums
    - Help students debug C, Java, Logisim & MIPS programming assignments
    - Collaborate with graduate students to develop programming and theory assignments

PERSONAL PROJECTS

- *Galaga :* 2D shooting game built on own 5-stage pipelined processor with Verilog & MIPS Assembly *Spring 2016*
- *Ascent Debate* : Web Portal for Debate Tutoring *Spring 2016*
    - Developed individually with NodeJS, AngularJS, Redis Server, Heroku and add-ons such as SendGrid
- Duke Student Government Software Task Force *Spring 2016*
- *Grid-Independent ATM*: Developed back-end & implemented asymmetric cryptography *Fall 2015*
    - Group project addressing inequality and poverty in rural villages of 3rd world countries
- *Foodpoints+* App using NodeJS – Currently 250+ users (foodpoints.herokuapp.com) *Fall 2015*
    - Used by Duke students to monitor and budget their food points, as well as favorite foods
- *DataFest*: Analyzed *Edmunds*' transaction data using R and Gravity Model *Spring 2015*
- Hack Duke: Team built heat-map of *Yik-Yak* activity on college campuses with Python & JavaScript *Fall 2014*

LEADERSHIP EXPERIENCE

- National Service: Platoon Sergeant, Singapore Armed Forces (SAF) *December 2012 – November 2013*
    - Led platoons of 40 soldiers, instilling discipline, training fitness and developing basic military skills
    - Named Best Commander of the Batch
- Duke Debate: Part of Duke's delegation to World Universities' Debating Championships *December 2015*

[1] Eligible for early graduation in Spring 2017 if necessary