Raghunathan Adithya

HP: +1-919-8088419 | E-mail address: ra102@duke.edu

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), Artificial Intelligence (Python), 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), Unix (Proficient), MIPS Assembly (Proficient), Verilog (Proficient), C (Proficient), C++, Arduino, SQL (Basic)

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

GitHub: https://github.com/Adithya93

Website: https://adithya93.github.io/

WORK EXPERIENCE

- Software Engineer Intern, *Yahoo* – Enhancing tail-tolerance of distributed system   *Summer 2016*
- Machine Learning Associate Intern – Newcleus Predictive Analytics – Singapore   *Summer 2015*
    - o 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*
    - o Lead recitations for class of 20 – 40 undergraduate CS students
    - o Answer students' questions through in-person office-hours and online forums
    - o Help students debug C, Java, Logisim & MIPS programming assignments
    - o Collaborate with graduate students to develop programming and theory assignments

PERSONAL PROJECTS

- *Ulysses* : A web app for making *Ulysses Contracts* with others – built with NodeJS & MongoDB   *In Progress*
- *OpenWebChat* : Web chat app built with NodeJS & Socket.io   *In Progress*
- *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*
    - o 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*
    - o 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*
    - o 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*
    - o Led platoons of 40 soldiers, instilling discipline, training fitness and developing basic military skills
    - o Named Best Commander of the Batch
- Duke Debate: Part of Duke's delegation to World Universities' Debating Championships   *December 2015*

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