

ADITHYA RAGHUNATHAN

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EDUCATION

Duke University, Pratt School of Engineering

Expected Graduation: Dec 2017

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



EXPERIENCE

- **Software Engineer Intern, Facebook** – Messenger Platform Team & Messenger Discovery Team *Summer 2017*
 - o Design, implement and test infrastructure for managing *Discover Tab* feature on Messenger
 - o Power new backend of *Featured Unit* that drives more than 50% of *Discover Tab* CTR
 - o Top 5 in Facebook Intern Hackathon
 - o Gain proficiency in Hack (type-safe and concurrency-optimized FB flavor of PHP), React & system design
- **Software Engineer Intern, Yahoo** – Enhancing tail-tolerance of distributed system *Summer 2016*
 - o Design, implement and test *request-filter* middleware plugin (Speculative Retry) in Java
 - o Reduce error-rate (408 & 5xx errors) by ~ 30% and cut 99.9th percentile latency by ~40% for YQL+ apps
 - o Gain proficiency in multi-threading, UNIX scripting and *Agile development* (CI/CD pipeline, TDD, etc)
- **Machine Learning Associate Intern – Newcleus Predictive Analytics** – Singapore *Summer 2015*
 - o Develop a library of programs in Python, JavaScript (NodeJS & Selenium Webdriver) and R to obtain, integrate and process comprehensive information about business leads for augmenting ML algorithms
- **Teaching Assistant – Duke Comp Sci Dept. – Comp Architecture, Operating Systems** *Spring 2016, Spring 2017*
 - 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, C++, Java, Logisim & MIPS programming assignments



PERSONAL PROJECTS

- **AmazonSim** : Mini-Amazon web-app – C++ & PostgreSQL backend, Django frontend *Spring 2017*
- **Tiger Compiler** : Compiler implemented in SML for the *Tiger* programming language *Spring 2017*
- **PowerHour** : Web app to create playlists with custom start & end points – NodeJS & MongoDB *Winter 2016*
- **Ulysses** : Web app for making *Ulysses Contracts* with others – built with NodeJS & MongoDB *Fall 2016*
- **OpenWebChat** : Web chat app built with NodeJS & Socket.io *Summer 2016*
- **Galaga** : 2D shooting game built on 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
- **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