

## EDUCATION

**SAT:** 2370

**Reading:** 780    **Math:** 800    **Writing:** 790

**Rice University**, Houston TX

**Expected Graduation:** May 2013

**Major(s):** Computer Science, Economics, Mathematics

**GPA:** 4.06

## SKILLS & COURSEWORK

### Computer Languages

Java, Python, Javascript (jQuery, Backbone, D3), PHP (CakePHP), C, Matlab, Ruby (on Rails), Objective-C

### Additional Skills

SVN, Git (Github), Photoshop, InDesign, CSS (Bootstrap, LESS), MySQL, VBA for Excel

### Relevant Coursework

Object-Oriented Programming  
Design/Analysis of Algorithms  
Compiler Construction

Mobile Phone Programming  
Operating Systems  
Parallel Programming

Computer Systems  
Database Systems  
Computer Engineering

## WORK EXPERIENCE

### Zynga, Developer Intern on the zCloud Team, KPCB Engineering Fellow

May 2012 - Aug 2012

- Created a data analytics tool and dashboard (Beagle) that enables project managers to quickly analyze, manipulate, and compare hundreds of game metrics. Beagle is now being adopted at a number of major game studios.
- Participated in numerous tech-talks and gave a talk on time-series visualization as part of the KPCB Fellows Program.

### Advertisement Manager at the Rice Thresher

Aug 2011 - Present

- Approached and worked with a variety of advertisers to sell advertisements for the student-run school newspaper.
- Introduced an annual budget that contains the expected revenue and expenses based on historical data to ensure that the newspaper runs a sustainable profit.
- Led the transformation of the advertisement department from an one-man operation into a five-person department.

### Belvedere Trading, Derivatives Trader Intern

May 2011 - July 2011

- Worked alongside experienced traders and managing partners to learn Belvedere's proprietary systems, option theory and valuation, hedging strategies, and portfolio analysis.
- Contributed to many aspects of the trading desk activities including position management, trade checking, order execution, trade reconciliation, and pre and post trade analysis.
- Independently developed a trading simulator and an automated post-trade analysis program during spare time.

### Rice University, Computational Genetics Research with Dr. Luay Nakhleh

Aug 2009 - May 2011

- Analyzed gene tree and species tree incongruences using computational models (BEST, ML) programmed in Python and Matlab to find algorithms that infer the species tree while accounting for variation amongst gene trees.

## PERSONAL ACTIVITIES

### Student Instructor for DUNC 192: Theory of Texas Hold'em

Jan 2013 - Present

- Created weekly lectures, wrote problem sets, and assigned readings for a university course of 35 students on the mathematical theory of Texas Hold'em poker. Utilized statistics, game theory, and numerous statistical tools to teach and reinforce the material.

### HomeHub (Java, PHP, Python, Javascript, MySQL)

July 2012 - Present

- A web application and Android application that enables users to remotely manage their Homewerks CT-30 thermostat. The Android application uses Google's voice recognition API to parse user input. The web service utilizes natural language processing to understand and process user commands.
- Planned to extend to multiple appliances and support inter-appliance communication.

### Holla (Python, MongoDB)

Oct 2012

- An anonymous mobile SMS service that pairs people with similar interests together. Created with a small team for the HackTX hackathon using the Twilio API.

### President of the Rice Investment Club

Aug 2011 - May 2012

- Delivered bi-weekly hour lectures to a class of 30 students on the fundamentals of stock, bonds, and derivatives analysis. Organized the first-ever Rice Stock Portfolio Competition.

### CrowdAround (Java, MySQL, Python)

Nov 2010 - Aug 2011

- A hyperlocal real-time group messaging Android application that enables users to anonymously communicate with other users within an elastic distance.
- Placed 5th in the Rice Business Plan Competition for which we prepared an extensive business plan, elevator pitch, and presentation.

### FoodWatchers (Objective-C)

Aug 2009 - Dec 2009

- A food photo-diary iPhone application that enables users to share and broadcast photos and comments of food they've recently eaten. Utilizes the Facebook API to enable users to easily login and share photos.