

# Krishna Thiagarajan

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[github.com/krishnat01](https://github.com/krishnat01)

## Education

### Rice University — Houston, TX

Computer Science, Mathematics '17

3.67 GPA

### Strake Jesuit College Preparatory — Houston, TX

4.17 GPA

## Technical Skills

Proficient in **Java**, **Python**

Comfortable with **HTML**, **JavaScript (jQuery)**, **CSS**, **XML**, **SQL**, **C**, **Matlab**, **LaTeX**

Tools **Eclipse**, **Sublime**, **Vim**, **Mercurial**, **Git**, **Apache Ant**, **Flask**, **Jersey**

## Work Experience

### Facebook – Software Engineering Intern

Summer 2016

- Worked on upgrading Netty to the latest version in order to improve CPU and memory performance. Netty is the package that the MQTT team uses to manage millions of asynchronous TCP connections
- Added some UI elements for the dashboard that monitored all the metrics the MQTT team uses

### Google – Software Engineering Intern

Summer 2015

- Created tool that validated configuration for Play Test Engineering team's automated testing suite. This tool ensured configurations were valid before changes were submitted to the codebase.
- Implemented an internal tool plugin that used the validation tools to display errors within Google's internal code review UI.

### PROS – Software Engineering Intern

Summer 2014

- Implemented Java REST APIs for win rate data and an accompanying UI that made the REST API calls and plotted the data. The user specified dimensions and metrics (each of which is its own REST API call) in order to graph the price and their win-rate percentages for the sales of a product
- Created a Python GUI for internal use that applied an algorithm to list price data and output the resulting profit-maximizing list prices.

## Projects

### [LiveTranslate](#) | [HackRice](#)

January 2014

- Used openCV2 and tesseract-ocr to detect foreign language text in front of a webcam, and then made calls to Bing Translate API to translate the text to English and display it in real-time.
- Won Microsoft Award and People's Choice Award

### [Servery App](#) | [RiceApps](#)

June 2014

- Scraped the menus of the five cafeterias on campus from PDFs and displayed the menus on a website, with a "quickview" page that details the next meal
- Implements Rice login and upvote/downvote functionality

## Relevant Coursework

**COMP** – Computational Thinking; Fundamentals of Computer Engineering; Algorithm; Program Design; Parallel Programming; Computer Systems; Advanced Object-Oriented Programming; Advanced Algorithms; Statistical Machine Learning; Automata, Formal Languages, and Computability

**MATH** – Multivariable Calculus; Matrix Analysis; Probability and Statistics; Real Analysis; Differential Equations; Combinatorics; Abstract Algebra

## Activities and Awards

Finalist at Rice Undergraduate Venture Challenge

March 2014

Rice Computer Science Club – Technical Chair

2014 - 2015

RiceApps – Member

2014 - 2015