

# Rishabh (Ray) Iyer

rayiyer.me | rri@stanford.edu | 248.912.8056

## EDUCATION

### STANFORD UNIVERSITY

#### BS IN COMPUTER SCIENCE

Expected June 2021 | Stanford, CA

GPA: 4.1

### THE ROEPER SCHOOL

Grad. June 2017 | Birmingham, MI

GPA: 4.3

National Merit Semifinalist

AP Scholar with Honor

## LINKS

Github:// [riyer01](#)

LinkedIn:// [rishabhriyer](#)

## COURSEWORK

### TAKEN

Programming Methodology

Programming Abstractions

Probability for Computer Scientists

Standard C++ Programming Lab

Computer Organization and Systems

Linear Algebra & Multivariable Calculus

### PLANNED FALL 2018

Object Oriented Systems Design

Applied Matrix Theory

Principles of Computer Systems

## SKILLS

### PROGRAMMING

#### Technologies

Python (BeautifulSoup, Selenium)

Java • JavaScript • jQuery • C++

C • Assembly • HTML5 • CSS3

LaTeX • Unix • git • GDB

#### Concepts

REST API Integration • Web Scraping

Data Structures • Algorithms

### LANGUAGES

English - Native

Spanish - Proficient

## PROJECTS

### RIDESHARE OPTIMIZER July 2018 - Present

[github.com/Riyer01/Rideshare-Optimizer](#)

- Creating web application with HTML/CSS/Bootstrap frontend, JS/jQuery backend that will call Uber and Lyft's REST APIs via AJAX to compare prices in real-time for a given route.
- Integrated with the Google Maps JavaScript API to provide asynchronous address autocomplete, geocoding, and dynamic map visualization.

### WALLPAPER SCRAPER June 2018 - Present

[github.com/Riyer01/Wallpaper-Scraper](#)

- Wrote a Python script to scrape hundreds of pictures of cars, overlay them with inspirational quotes, and automatically cycle as desktop backgrounds.
- Utilized BeautifulSoup, Requests, PIL (Imaging Library), and the quotes.rest API to gather and parse quotes as JSON.

### WIKIRACER March 2018

[github.com/Riyer01/WikiRacer](#)

- Implemented a C++ algorithm to find the shortest series of links to click to navigate between two Wikipedia pages.
- Optimized to parse thousands of Wikipedia pages and used an STL priority queue to return the shortest path.

### DYNAMIC MEMORY ALLOCATOR June 2018

Class Project

- Designed both implicit and explicit free-list models for managing heap memory.
- Implemented malloc(), realloc(), and free() using these models in C, debugged with GDB and Valgrind, achieving over 85% mean memory utilization.

### COMPANION October 2017 - January 2018

[goo.gl/mfkKyv](#)

- In a team of 4, designed and prototyped an app to facilitate "pet-sharing" between pet-owners and animal lovers.
- Won second place in a pitch contest to a panel of VC partners.

## EXPERIENCE

### BLACK SMS | SOFTWARE ENGINEERING AND RECRUITING INTERN

June 2018 - August 2018 | San Francisco, CA

- Developed Python script with Selenium/Requests to scrape profiles from LinkedIn and send outreach via AngelList and email to over 5000 candidates.
- Overhauled website with Bootstrap to display the team, advisors, company story, and new product direction (blacksms.info).

### STANFORD PRE-BUSINESS ASSOCIATION | CONSULTANT

January 2018 - May 2018 | Stanford, CA

- Advised consumer e-commerce startup MemeBox (YCW14) on growth and customer acquisition strategy.
- Researched methods to boost user referrals and utilize influencer marketing.

### ALCHEMIST ACCELERATOR | BUSINESS DEVELOPMENT FELLOW

January 2018 - May 2018 | Palo Alto, CA

- Worked on negotiating partnerships with airlines and fitness providers to offer as perks to portfolio companies. Conducted market research and due diligence.