

# Rishab Srivastava

<https://rishab231.github.io/>  
rishab.s@berkeley.edu | 510.640.6898

## EDUCATION

### UC BERKELEY

COMPUTER SCIENCE & ECONOMICS

Expected May 2020 | Berkeley, CA

Cum. GPA: 3.729 / 4.0

### AMITY INTL. SCHOOL, NOIDA

Grad. May 2016 | Delhi, India

- 96% in grade 12 Board Examinations
- Perfect 10 CGPA in grade 10 exams

## COURSEWORK

- Efficient Algorithms & Intractable Problems
- Data Structures
- Artificial Intelligence
- Computer Architecture
- Principles & Techniques of Data Science
- Discrete Math & Probability Theory

## SKILLS

### PROGRAMMING

Advanced:

- Java • Python • SQL
- git • Pandas • JavaScript (Node.js)
- LaTeX • HTML • CSS • NumPy

Familiar:

- R • Android • C++

## LINKS

Github:// [rishab231](#)

LinkedIn:// [Rishab Srivastava](#)

## AWARDS & HONORS

### MEMBER | UPSILON PI EPSILON

International Computer Science Honors Society; top third of all declared CS majors.

### AP SCHOLAR WITH DISTINCTION | COLLEGE BOARD, INC.

Awarded for scoring a perfect score on five Advanced Placement Examinations.

### INTERNATIONAL CHESS PLAYER | FIDE

Awarded world rating of 1350 by World Chess Federation.

## EXPERIENCE

### SUMMER ANALYST | HELIOS CAPITAL MANAGEMENT

June 2018 – August 2018 | Singapore

- Asia-focused hedge fund with assets under management of \$300M

### UNDERGRADUATE STUDENT INSTRUCTOR | FOUNDATIONS OF DATA SCIENCE

August 2017 – December 2017 | Berkeley, California

- Teaching statistical inference techniques to students in 2 weekly sections
- Holding office hours and grading weekly homework assignments and projects

### DATA SCIENCE INTERN | INTELENT INC.

May 2017 – July 2017 | Princeton, New Jersey

- Worked with Intelent software and data engineers to design and develop risk management platform ClinACT in Java
- Implemented Adverse Events Monitoring System for the web application using Java, HTML, CSS and a RESTful API
- Derived conclusions from clinical trial datasets using advanced analytics tools and visualisation techniques

## ACADEMIC AND PERSONAL PROJECTS

### THE MODIFIED TRAVELING SALESMAN PROJECT | Python

- Designed and developed Google Maps-esque web app that allows users to interact with a map of Berkeley
- Implemented features such as searching, routing, autocomplete, and map rastering using quadtrees, tries, hashtables, and the A\* search algorithm

### BEARMAPS | Java

- Designed and developed Google Maps-esque web app that allows users to interact with a map of Berkeley
- Implemented features such as searching, routing, autocomplete, and map rastering using quadtrees, tries, hashtables, and the A\* search algorithm

### DATABASE | Java

- Designed the API for a relational database management system (SQL) in Java from scratch and implemented the backend
- Supported the following user queries: natural inner joins, filtering, loading/printing/creating tables and arithmetic/NAN/NoValue computations
- Used IntelliJ, git version control, JUnit testing, and Javadoc documentation

### SCHEME INTERPRETER | Python

- Used Python to create an interpreter for Scheme, a dialect of the language *Lisp*
- Applied principles of tree recursion, lexical and syntactic analysis, and functional programming

### YELP MAPS | Python

- Created a Voronoi visualization using machine learning and Yelp data set
- Implemented the k-means unsupervised learning algorithm to group restaurants together based on proximity
- Implemented simple least-squares regression to predict user ratings