

Vikram Kher

COMPUTER SCIENCE | APPLIED MATH

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Education

University of Southern California - Viterbi School of Engineering

Los Angeles, CA

BACHELOR OF SCIENCE IN COMPUTER SCIENCE & BACHELOR OF ARTS IN APPLIED MATHEMATICS

August 2018 - PRESENT

- GPA: 4.0/4.0
- Academic Achievement Award (2020), Dean's List (2018-2019)
- Expected Graduation Date: May 2022

The Overlake School

Seattle, WA

HIGHSCHOOL

August 2014 - June 2018

- Cumulative GPA: 93/100, unweighted
- SAT: 1560/1600 | SAT Math 2: 800/800 | SAT Physics: 800/800

Skills & Courses

Languages C++ (Proficient), Python (Proficient), Java (Proficient), HTML/CSS (Proficient), JavaScript (Intermediate)

Courses

Advanced Analysis of Algorithms (PhD Level), Introduction to Algorithms and Theory of Computing, Introduction to Artificial Intelligence, Calculus 3, Linear Algebra, Probability Theory

Experience

Computation and Data Driven Discovery Lab

Los Angeles, CA

VITERBI UNDERGRADUATE RESEARCHER

May 2020 - Present

- Developed predictive modeling systems to determine ICU outcomes for COVID-19 patients
- Conducted exploratory data analysis with data sparsity matrices, t-SNE analyses, correlation matrices

Undergraduate Teaching Assistant - Introduction to Algorithms and Theory of Computing

Los Angeles, CA

COURSE PRODUCER

August 2020 - Present

- Leads office hours to help students understand course concepts and lecture material
- Facilitates exam review sessions covering topics such as Greedy Algorithms, Dynamic Programming, and NP-Hardness

Clari5

Seattle, WA

SOFTWARE ENGINEERING INTERN (PART TIME) - FINANCIAL TECHNOLOGY COMPANY

September 2019 - December 2019

- Designed, implemented, and compared different string metric algorithms to reduce false-positive bank fraud alerts

Projects

Gladeo iOS App

CODE THE CHANGE

2020

- Worked in team to develop app for career mentorship non-profit Gladeo
- Utilized Node and Express to create backend routes to handle account creation, password resetting, among other services
- Employed YouTube's APIs to enable automatic video uploading from app

NP-Hardness in Popular Puzzle Game Baba is You

PERSONAL

2020

- Worked with Theoretical Computer Science PhD student to develop reduction from 3-SAT to in-game map
- Part of an ongoing paper that will include reductions for other games

Interests & Clubs

Interests Russian Literature, Pocket Billiards, Art History

Clubs Code the Change (Developer position), Association of Computing Machinery