

Rana Rajiv Lulla

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Education

University of California San Diego

La Jolla, CA

- Major: Math-Computer Science, 3.89 GPA
- Freshman merit scholarship
- Relevant CS Courses: Data Structures and Object-Oriented Design (Tutor), Software Tools and Techniques Lab, Computer Organization and Systems Programming (Tutor), Advanced Data Structures, Design and Analysis of Algorithms, Theory of Computability, Programming Languages: Principles and Paradigms
- Relevant Math Courses: Linear Algebra, Calculus (5 course series), Abstract Algebra (2 course series), Mathematical Reasoning, Discrete Mathematics and Graph Theory, Statistical Methods

Class of 2024

American School of Bombay

Mumbai, India

- International Baccalaureate Diploma, AP Statistics
- Certificate of Excellence in: Computer Science, Math, Physics (Grades 10, 11, 12)

Class of 2020

Hong Kong Academy, Hong Kong SAR

2011-2012

International School of Paris, France

2008-2011

Experience

CitiusTech, Remote

June-September 2022

- International data driven healthcare company specializing in machine learning and algorithmic design
- Worked in **Python** using **PANDAs** and **SKLearn/XGBoost** to develop predictive models using healthcare data
- Incorporated Social Determinants of Health to improve prediction rates of medical outcomes

UCSD CSE Department Tutor, La Jolla

September 2021-December 2022

- Tutored for CSE12 (Data Structures and Object-Oriented Design) and CSE30 (Computer Organization and Systems Programming)
- Course content included data structures, **Java**, **C**, **ARM Assembly** (32 bit), **Bash scripting**, **Computer Logic**
- Held private tutor hours to aid students with their assignments and general course content questions
- Helped create autograders to evaluate and grade student's code and manually graded style (such as commenting)
- Received exclusively positive reviews from all responding students

Gracie Point LLC, New York

June-September 2021

- Worked on data management and financial modeling at NYC based global specialty finance company
- Helped transition to new tech solutions for automation of tedious processes including transcription and data parsing using **VBA** scripts
- Company extended the internship and continued to employ me on a freelance basis

Oasis Living, London, United Kingdom

June-July 2019

- Start-up in the "PropTech" sector in London
- Enable individual landlords to enhance rental yield using big-data and machine-learning
- Wrote code in **Django**--with **MySQL**--**ReactJS** and **Jupyter Notebook**

Summer Programs

"Extreme (!) Graph Theory and Combinatorics," Harvard University Summer School, Pre College Program

2018

Ramsey Theory, Game Theory, Van Der Waerden Numbers, & extremal forms of graph theory

"Computer Simulations and Interactive Media," Stanford Pre Collegiate Summer Institute

2017

Game development in a limited framework, Pico-8, a Lua based language with many limitations

Java Programming, iD Tech, California Institute of Technology

2015

Low level programming (such as if statements, functions, for loops, etc.) and OOP

Other

Programming Skills

Java, C++, C, Python, Lua, Processing, Javascript, HTML, CSS, Neural Evolutionary Augmenting Topologies (NEAT), ARM Assembly, VBAs, Unix based programming environments, SQL, MATLAB, R, PANDAs

Personal Projects

- Created a [game](#) and a [mapmaking tool](#) over the course of 6 months, see full github page here: <https://github.com/Metarus>
- Made [Snake](#) and [Tetris](#) AIs using NEAT in Python

Robotics

- Founding member and co-leader of high school's robotics team, Pangaea. Programming & Electricals lead, Outreach committee lead, driver of robot at competitions, Finance committee
- Individual Awards: Dean's List Award Semi-Finalist in Sydney, 2019, Team Awards: Rookie All-Star, Highest Rookie Seed
- Participated in regional competitions in Sydney, Australia multiple times, and World Championships in Houston, Texas