### RAHUL VENKATESH

#### Academic Details

Year	Degree	Institute	CGPA/Percentage
2016-2020	B.Tech in Computer Science	Indian Institute of Technology, Delhi	7.370
2016	Class XII, Karnataka State	Mother Teresa PU College, Mysuru	92.1%

## Scholastic Achievements

- Selected for ACM-ICPC 2018 Regional Round with teams competing from all over India.
- Secured All India Rank 2754 in Joint Entrance Exam (Advanced) 2016, among 150,000 candidates.
- Awarded Kishore Vaigyanik Protsahan Yojana (KVYP) Fellowship by Indian Institute of Science, 2015.
- Received National Talent Search (NTS) Scholarship for being in the top 1000 at National Level, 2012.

# Work Experience

1. Order Entry Gateway | Squarepoint Capital

AUG 2020 - PRESENT

- Developed, tested, debugged and documented applications used for algorithmic trading.
- Built new order entry gateways to various stock exchanges over different order entry protocols.
- Improved **performance** of the application by **collecting and analyzing** latency-related **data**.

# **Projects**

1. Parallel Laplacian Solver | Prof. Amitabha Bagchi

AUG 2019

- Implemented a random-walk distributed method to solve an important class of Laplacian Systems.
- Experimented with various optimizations and used Alias Method to successfully improve performance.
- Wrote and tested in C++; used OpenMP application programming interface for parallelization.
- 2. Public Credit Registry | Prof. Subhashis Banerjee, Prof. Subodh Sharma

MAY 2019

- Constructed first-order logical representation of data privacy, security and other correctness properties.
- Proposed a complete example of a design with unit tests and end-to-end testing of the model.
- Employed blockchain technology similar to Hyperledger Fabrics and Software Guard Extension.
- 3. AI Game-playing bot | Prof. Mausam

OCT 2018

- Created a bot to play Yinsh, a 2-player game on an hexagonal board with a branching factor of 30.
- Used **Alpha beta pruning** with **static move ordering** to decide next move from set of all possible moves.
- Utilized **Bitboards** and **Zobrist Hashing** to speed up move generation, thus searching 4 moves ahead.

#### Relevant Coursework

- Math: Linear Algebra and Differential Equations, Calculus, Probability and Stochastic Processes
- Computer Science: Data Structures and Algorithms, Principles of Artificial Intelligence, Machine Learning

## Technical Skills

- Programming Languages: C/C++, Python, Bash
- Tools/Software: PyTorch, TensorFlow, OpenMP, CUDA