SANJAY SEETHARAMAN

16PT32

Father's name

Gender

Male

Date of Birth

Languages known

Email

Seetharaman M V

Permanent Address

857, 11th Street,

Syndicate Bank Colony,

Anna Nagar West Extn.,

Chennai,

Mobile +91-97907-84201 Tamil Nadu – 600101.

ACADEMIC QUALIFICATION

Currently pursuing 4th year of 5 year Integrated M.Sc. Theoretical Computer Science at Department of Applied Mathematics and Computational Sciences at PSG College of Technology.

SKILL SET

Languages	C++, Python, R, C, Bash, Java, MySQL	
Platform	Linux, Windows	
Tools	LaTex, Git, Matlab, Qt, GTK	

AREAS OF INTEREST

• Design and Analysis of Algorithms

Optimization Techniques

- Theory of Computation
- Discrete Mathematics

ACADEMIC RECORD

Semester	I	II	Ξ	IV	٧	VI
GPA / 10	9.67	9.85	9.46	9.20	9.71	9.73

Course	Institution	Board	Completion By	Marks (%)
х	SBOA School & Junior College	CBSE	2014	100
XII	SBOA School & Junior College	CBSE	2016	93.8

RESEARCH EXPERIENCE

Research Intern, TCS Research, Pune. May 2019 - November 2019.
 Adversarial Attacks and Defenses in Machine Learning Systems.

ACADEMIC PROJECTS

- **2Pac-Man** A bot that plays Ms Pac-Man using MCTS. An implementation of the research paper **Fast Approximate Max-n Monte-Carlo Tree Search for Ms Pac-Man** (S Samothrakis et al.).
- **Divine Text** A custom text completer built in C++ for Qt text widgets based on **Burkhard Keller Tree** (BK Tree), a data structure specialized to index data in a metric space. It solves the problem of searching a set of keys which is closest to a given query key.
- Unbeatable Chopsticks A game built in Qt(C++) that has a bot which plays Chopsticks using game trees. Human player plays against the bot which with perfect play, can find an optimal strategy from any point of the game using game trees.
- **Cube Timer** A Rubik's cube speedsolving timer with a built-in scramble generator built in Qt(C++). The stopwatch collects and helps one training stats by calculating the important averages and tracks the progress of the user.
- Distributed MST An implementation of the research paper A distributed algorithm for minimum-weight spanning trees(RG Gallager et al.) that works based on client server model to solve the minimum spanning tree problem in O(V log V).
- Timetable Scheduler An application that generates a timetable with least collisions based on the lists of rooms, timeslots and courses given by the user. An implementation of the research paper Solving timetable scheduling problem using Genetic Algorithms (B Sigl et al.).

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

Competitive Programming:

Codechef: Highest Rating : 1874 [Purple] **Codeforces**: Highest Rating : 1639 [Expert]

- Secured rank 615 in pre-elimination round of Codechef Snackdown 2017
- Qualified for ACM ICPC 2017 Amritapuri Regional Finals
- Passed CCDSAP foundation level exam held by Codechef
- Regional Runner up, TCS IT WIZ 2014, 2015
- Taekwondo 1st Dan Black belt
- NCC A certificate

DECLARATION

I, Sanjay Seetharaman, do hereby confirm that the information given above is true to the best of my knowledge.

Place: Coimbatore Date: 18.01.2020

(Sanjay Seetharaman)