

# Sreeramji K S

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## EDUCATION

### INDIAN INSTITUTE OF SCIENCE, IISc

PHD, THEORY CS  
Aug 2024 - Present

### AMRITA VISHWA VIDYAPEETHAM

B.TECH IN COMPUTER SCIENCE  
June 2021 | India  
First Class with Distinction  
CGPA: 9.54 / 10

### SSM SCHOOL

SENIOR SECONDARY  
May 2017 | Chennai, India  
Score: 94.20%

## LINKS

Codeforces: [jam1729](#)

Max Rating: 2156 (Yellow)  
1000+ problems solved

CodeChef: [jam1729](#)

Max Rating: 2219 (6\*)

Topcoder: [jam1729](#)

ICPC ID: 65GE9IVC8WMJ

## COURSEWORK

### POSTGRADUATE

Design & Analysis of Algorithms  
Computational Geometry  
Randomized Algorithms  
Advanced Data Structures  
Probability and Statistics

### UNDERGRADUATE

Theory of Computation  
Discrete Mathematics  
Neural Networks and Deep Learning

## SKILLS

C++ • Java • Python • Go

Bazel • Prompt Engineering

Lean • LP solvers

Range Query Data Structures

## INTERESTS

- Computational Geometry
- Randomized Algorithms
- Heuristics and Optimization

## EXPERIENCE

### GOOGLE | SOFTWARE ENGINEER

3 years 1 month, July 2021 - July 2024 | Bengaluru, India

- Google Research - Discrete Algorithms (20% time):
  - Worked on coming up with theoretical basis for comparing approaches on the paper "*Efficient Location Sampling Algorithms for Road Networks*"
- Worked on **auto code-generation for fuzz targets using LLMs**. Effort to be scaled to **10,000+** OSS packages to increase security coverage.
- Designed and built framework to **semantically validate pre-built packages** utilizing decompiler and disassembler as black boxes. **2 SWE** effort saved.

### MICROSOFT | SOFTWARE ENGINEER INTERN

2 months, May 2020 - July 2020 | Hyderabad, India

- Analysed available World State DB implementations of Hyperledger Fabric, a permissioned distributed blockchain framework, as a part of the Azure Blockchain Services team.
- **Built and dockerized a DB adapter** that translates 10+ types of queries and parses responses. Brought up an E2E PoC and perf-tested the same.

## RESEARCH

### SIMPLIFIED VORONOI DIAGRAMS IN 2D | RESEARCH

Dec 2024 - Present | IISc | Computational Geometry

Redefining Voronoi Diagrams to enable simpler construction and possibly simpler manipulation, compared to the standard Fortune's Algorithm.

### CLOSEST DOMINANT POINT | RESEARCH

Sep 2024 - Nov 2024 | IISc | Range Trees, Nearest Neighbour

Studied the problem of finding the closest dominant point for each point in a point-set in  $\mathbb{R}^n$ . Proposed an improved algorithm for the offline version.

### LARGE SCALE FACILITY LOCATION | RESEARCH

April 2020 - June 2021 | UG | Linear Programming, Parallel Heuristics

Constrained optimization of a large scale variation of the Facility Location Problem (FLP) for edge-user allocation (EUA). Placed **1<sup>st</sup>** and **4<sup>th</sup>** at national competitions.

## ACHIEVEMENTS

2025	Delegate	Google Deepmind Research Symposium
2022	Winner	Simplification Award for project at Google
2022	Winner	Aarambh Hackathon at Google
2021	Winner in South Asia	<b>Optimization Contest</b> at Topcoder Open (TCO) (cost minimization for a NP-hard problem on a grid)
2020	1 <sup>st</sup> /30	CodeBuzz Prog. Contest at Techfest, IIT Bombay
2020	83 <sup>rd</sup> /100K+	Global - <b>Google Kickstart</b> Round C
2019	24 <sup>th</sup> and 25 <sup>th</sup>	<b>ICPC</b> Pune Regionals and Kanpur Regionals
2019	1 <sup>st</sup> /50	Zonal CoDecode Contest at Techfest, IIT Bombay
2019	Full Score	CodeChef CCDSAP Advanced Certification
10+ wins at various national level programming contests		

## RESPONSIBILITIES

- Contributed with Leadership positions at multiple college clubs - ACM | CodeChef Chapter | Code@Amrita | Google DSC
- **Authored Competitive Programming problems** for multiple national events.
- **Event Manager** for multiple CS events at college technical fest.