

# Narayanaa S R

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Codechef: [//srnarayanaa](#) | Leetcode: [//srnarayanaa](#) | Github: [//srnarayanaa](#)

## EDUCATION

**PSG College of Technology**  
*Department of Applied Mathematics and Computational Sciences*  
*Integrated M.Sc, Software Systems; CGPA: 8.5/10*

Coimbatore, India  
June 2017- May 2022

## INTERNSHIP EXPERIENCE

**Software Engineer Intern**  
**Oracle India**

Jan 2022 – Present  
Hyderabad, India

- Working at Oracle HGBU - OGTS, building ADF, JavaFX applications, integrating with Opera Comparison Utility

**Research Intern**

May 2020 – Nov 2020

**Tata Research Development and Design Centre**

Pune, India

- Worked on Application Sandboxing, especially sandboxing of mixed mode code containing native code; Virtual Machine Nesting; Application Binary Analysis for hiding sensitive computation and Fault Tolerance in cloud environment

**Summer Research Intern**

May 2019 – June 2019

**CSIR Fourth Paradigm Institute**

Bangalore, India

- Worked with Senior Principal Scientist [Anil Kumar](#) to develop an application to filter and characterize Unsolicited Network Traffic for the real time server **CYSERO** for Dark Net Traffic Analysis and Characterization

## PROJECTS

- ProbeIndex - Vertical Search Engine:** Oct 2021 - Present
  - Developing a vertical search engine for the domain of academia - research articles, institutions and conferences using **Flask**
- UniGram:** Sep 2021 - Present
  - Developing a website using **React - Spring - MySQL**, that helps undergraduate and postgraduate students seek services and guidance from Alumni and consolidated analysis
- Competitive Programming Python Library - [pypi//cpalgo](#):** May 2021
  - Developed a Python library named cpalgo that contains over 100 standard competitive programming algorithms based on Algebra, DP, String, Geometry, Graphs, etc.
- Intermediate Code Generator for C Language:** July 2020
  - Built an Intermediate Code Generator for C Language with a Python Based GUI - pyqt, using Lex and Yacc

## RESEARCH

- Fault Localization in Cloud using Centrality Measures** Narayanaa S R, Sivaranjan M, Lekshmi R S. [arXiv:2109.11390](#)  
Addressed the problem of optimally performing fault localization in a distributed environment by modifying the Graph optimization approach to localization and centrality, specific to fault graphs.

## SKILLS

- Languages:** Python, C/C++, Java, Javascript\* • **Databases:** MySQL, OracleSQL, MongoDB\*
- Tools & Technologies:** Git, Matlab, VSCode, Qt • **Frameworks and Libraries:** React\*, Spring\* | \* - currently learning

## RELEVANT COURSEWORK

- Data Structures and Algorithms, Database Management System, Object Oriented Programming, Graph Theory, Soft Computing, Operating Systems, Computer Networks, Machine Learning, Cloud Computing

## CO-CURRICULAR ACHIEVEMENTS

- University Rank-1, World Rank-72 in Credit Suisse Global Coding Challenge**
- Competitive Programming :** Active on Codechef [Rating : 1982], Codeforces
- Have attended **ACM Summer School on Cybersecurity and Data Analytics - IIIT-Delhi '19** and **ACM Winter School on Algorithms for Big Data and ML - IMSc-Chennai '21**

## EXTRA-CURRICULAR ACHIEVEMENTS

- Associated with **Bhumi**, an NGO involved with Environment, Community welfare, Health-care and Education for the poor children in Chennai, India.
- Runner-up - Young Minds IT Quiz, IBM
- Certificates of Merit in Inter School Competitions in Football, Swimming and Quizzing