Narayanaa S R

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Codechef: //srnarayanaa | Leetcode: //srnarayanaa | Github: //srnarayanaa

Education

PSG College of Technology — Coimbatore, India
Department of Applied Mathematics and Computational Sciences — *June 2017- May 2022*
Integrated M.Sc, ***Software Systems****; CGPA:* ***8.6/10***

Internship Experience

Software Engineer Intern — Jan 2022 – Present
Oracle India — *Hyderabad, India*

- Working at Oracle HGBU - OGTS, building ADF, JavaFX applications, integrating with OCU

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*
  - Developed 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