

Narayanaa S R

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EDUCATION

PSG College of Technology

Integrated M.Sc, Software Systems, (CGPA: 8.24/10.0)

Coimbatore, India

June. 2017 – May 2022

SGHVMHSS

Class 12, Score: 94.67%

Chennai, India

May 2017

SRDFVV

Class 10, GPA 10.0/10.0

Chennai, India

May 2015

EXPERIENCE

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), and VM-Nesting for hiding sensitive computation and Fault Tolerance

Summer Research Intern

May 2019 – June 2019

CSIR Fourth Paradigm Institute

Bangalore, India

- Worked with Senior Principal Scientist Anil Kumar where we developed an application to filter and characterize Unsolicited Network Traffic for the real time server CYSERO (Dark Net Traffic Analysis and Characterization)

PROJECTS

Fault Localization in Cloud Environment using Heterogeneous Graphs

Jan 2021 - Present

- Working on Fault Localization in Cloud Environment by modifying Graph optimization approach to localization and centrality, specific to heterogeneous graphs

Network Congestion Monitoring - Using Streaming Algorithm

Jan 2021 – Present

- Implementing Karp-Papadimitriou-Shenker's algorithm that requires two passes, linear time, to monitor congestion in a real time Network

Intermediate Code Generator - C

June 2020

- Built an Intermediate Code Generator for C Language with a Python Based GUI using Lex and Yacc

Recommender System for E-Commerce

March 2020

- Built a KNN based Recommender System for e-commerce product recommendation

Simulation Analysis of Discrete Event Model

Nov 2019

- Simulation Analysis of Discrete Event Model and IEEE 802.11 based Wireless Local Area Network Model to observe congestion in the Network

SKILLS AND COURSEWORK

Languages: Python, Java, C/C++, JavaScript

Tools & Technologies: Latex, Unity, HTML, SQL

Libraries: pandas, NumPy, Matplotlib, Scikit-learn

Courses: Data Structures and Algorithms, Optimisation Techniques, Operating Systems, Graph Theory, Cryptography*, Machine Learning, Data Mining*, Cloud Computing*, Discrete Mathematics, Principles of Compiler Design.

**to be completed by May 2021*

OTHER EXPERIENCES AND ACHIEVEMENTS

- **ACM Summer School** - Cybersecurity and Data Analytics at **IIIT-Delhi**
- **ACM Winter School** - Algorithms for Big Data and ML at **IMSc-Chennai**
- **University Rank-1, World Rank-72** in **Credit Suisse Global Coding Challenge** among **40,000** contestants
- **Competitive Programming**, Codechef: 1912
- **7th** in **NASSCOM's GameDev Event**, Regionals-Chennai