

Roshini Sanikop

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github.com/roshinisarikop

Education

University of Massachusetts Amherst, *Master's in Computer Science* May 2026 (Expected)

- **GPA:** 3.76/4.0
- **Relevant Coursework:** Computer Networks and Security, Neural Networks, Methods of Applied Statistics

Visvesvaraya Technological University, *BE in Information Science and Engineering* Aug 2019 – June 2023

- **GPA:** 3.6/4.0 (Transcript)
- **Relevant Coursework:** Data Structures and Algorithms, Cryptography, Web App Development, Python Programming, Big Data Analytics, Databases Systems, Machine Learning

Skills

Technical Skills: Web Technologies - Proficient in HTML5 and CSS, JavaScript, Back-end Development (Flask, Nginx), Node.js, Android App Development, MySQL, PL/SQL, Elasticsearch, Debugging, Git, Shell Scripting.

Programming Languages: C++, Python, R (beginner), Java (beginner)

Soft skills: Documentation, Curiosity and Quick Learning, Troubleshooting, Reliability.

Experience

Associate Consultant, Oracle Financial Services Software – Bengaluru, India Aug 2023 – Jul 2024

- Optimized system efficiency and scalability by deploying JMS Modules in WebLogic, facilitating asynchronous communication and cutting server start latency from **20 minutes to 2 minutes—a 90% reduction**.
- Executed the installation and implementation of Credit Facilities Process Management (OBCFPM) and Enterprise Limits and Collateral Management (OBELCM), expediting the integration process and **decreasing deployment time by 86%**.
- Designed and implemented a **multi-node** (9 nodes) environment for high availability and scalability of OBCFPM and OBELCM.
- Automated and streamlined critical installation processes (deployments and Patch set application), reducing manual labor by 90% (from 2 hours to 2 minutes) and significantly boosting efficiency.

Site Reliability Engineer, Intern, PhonePe – Bengaluru, India Feb 2023 – May 2023

- Engineered a Flask web application for On-call Roster management, leveraging Elasticsearch, and Nginx for high availability. The implementation led to a reduction of **30 hours in manual scheduling each month**, significantly improving operational efficiency.
- Implemented configuration management and monitoring for a multi-node setup using SaltStack, achieving a **40% reduction in manual setup time** and enhancing system reliability through automated monitoring processes.

Projects

Mitigating bias in Facial Recognition using Seldonian Framework (Ongoing) *GitHub Repository*

- Investigating fairness in facial recognition models, focusing on how the Seldonian framework compares to other state-of-the-art techniques.

Online Drugstore - A Responsive website using MySQL and PHP *GitHub Repository*

- Developed an online pharmaceutical store platform using PHP and a MySQL back-end, implementing an administrative dashboard and a customer-facing module, which supported the management of over 150 products.
- Designed an adaptive user interface and front-end with HTML, CSS, and JavaScript, enhancing the overall user experience.

Phishing Website Detection using ML and Django *GitHub Repository*

- Developed a web application that identifies and classifies URLs as either Phishing or Legitimate using **Natural Language Processing** (NLP) techniques and a dedicated dataset. Built a machine learning model for binary classification of websites using NLP. Created the web application with HTML5, CSS, and Bootstrap.