Rohana Harsha

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SUMMARY

Former Software Engineer Intern at the *National Science Foundation* with experience in building web applications, tracking systems and working with workflow automation tools. Solving real world operational problems, reducing manual effort, and delivering features that modern workspaces rely on. Currently studying machine learning to bring intelligent behaviors into projects.

EDUCATION

- ***Uva Wellassa University, Sri Lanka.***
- ***BSc (Hons), Industrial Information Technology.***
- ***Thesis:*** *Assessing the Digital Evidence Handling Process in Sri Lanka and Selected Jurisdictions.*

SKILLS

TECHNICAL

React | Flask | TensorFlow | Python | PHP | REST API | Machine Learning | CI/CD | GitLab workflows & branching strategies

SOFT

Problem Solving | Team Collaboration | Critical Thinking | Communication | Adaptability | Time Management

REFERENCE

Mr. Nisal Nandasena
- Designation: Lecturer
- Phone: 071 1059530
- Email: nisal@uwu.ac.lk

Mr. Madhawa Perera
- Designation: NSF/IT Manager
- Office:0112209518
- Email: madhawap@nsf.gov.lk

WORK EXPERIENCE

National Science Foundation, Sri Lanka   **May - Nov 2025**

INTERN SOFTWARE ENGINEER

Tech Stack: Flask / PostgreSQL / Docker
Designed and created a web-based asset and employee tracking system
- Enabled separate user logins for every employee to track their own training records and assigned assets.
- Tracked asset movement throughout the system using asset numbers, reducing manual documentation by 90%.
- Reduced manual workflow up to final personnel verification step. HR-centralized interface to review skills, qualifications, and biodata.
- Automated Excel report generation for annual asset verification.

Developed and deployed a web-based expert pool database
- Handled more than 100+ experts in the database
- Supports 4+ reviewers to concurrently access database, with data integrity.

Networking and Maintenance
- Managed basic TCP/IP networking, structured cabling and maintenance of IT infrastructure ensuring compliance with Network Administrator guidelines.
- Applied GitHub *CI/CD* actions and deployed on a Rocky Linux server.
- Created a docker image with three different containers.

PROJECTS

Hotel Guest Management System   **Sep 2025**

Tech Stack: Flask / Vite / PocketBase
- Integrated and tested PocketBase as the new database technology reducing response delay by 40%.
- Optimized development workflow using GitHub actions while achieving fast and reliable deployment.

Property Management Web-application(Daffodil Zone)   **Aug – Dec 2025**

Tech Stack: Flask / React / SQLAlchemy
- Designed REST APIs and database blueprints for each lands, hotels and agent listings.
- Used GitHub for version control and GitHub Actions for *CI/CD* workflows, tested endpoints using Postman.
- Applied Agile methodology to breakdown complex features like property booking into manageable tasks.

Word Classification Model   **April – Oct 2024**

Tech Stack: TensorFlow / NumPy / Pandas / Python
- Deployed a word classification model achieving 85% accuracy.
- Derived keywords related to real estate from a natural user query.
- Self-studied TensorFlow and Machine Learning basics to enhance skills.
- Trained the model to classify and categorize words based on context.