

Harsha Emani

Machine Learning Operations Engineer

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Professional Summary

Technology Enthusiast, Passionate and Goal-Driven. 5 years of experience in the industry blended with a versatile set of technical and soft skills. Demonstrated ability to work in fast-paced and dynamic environments with dedicated passion. Seeking for teams to collaborate with, interesting problems to solve and contribute to the collective growth.

Education

Master of Computer Science by Report

January 2023 – August 2025

University of New Brunswick, Fredericton, New Brunswick

- Pursued a research-based masters with a focus on **R&D** for an **MLOps based Forecasting Tool** to automate **net load demand prediction** workflows for small islands, with reliability, accuracy and maintainability as key attributes.

Bachelor of Technology: Information Technology

August 2015 – May 2019

Vishnu Institute of Technology, Bhimavaram, India

Skills and Competencies

- **Tools/Technologies:**

Python, Pandas, Scikitlearn, Matplotlib, Seaborn, Keras, Tensorflow, Django, FastAPI, PostgreSQL, NuxtJS, VueJS, NextJS, ReactJS, Figma, SAML, OAuth, Hyperledger Fabric, MongoDB, Docker, Kubernetes, Jenkins, IBM Cloud, GitLab, Linux, Proxmox

- **Concepts:**

Software Development Lifecycle, Automation, Machine Learning & Deep Learning, DevOps, Software Design and Architecture, Software Security, Data Analysis and Visualization, Source Control Management, Computer Networking

- **Softskills:**

Excellent language skills, Out-of-the-box thinking, Curiosity, Presentation skills, Collaboration, Leadership, Motivational speaking, Technical writing, Proactive risk identification

Professional Experience

Graduate Research Assistant

May 2024 – August 2024

ECE Department, University of New Brunswick, Fredericton, NB

- Implemented a functional **Deep Learning model** for forecasting the load demand of a Renewable Energy resource and developed a website to assess the performance and analytics for every **prediction interval**, improving **prediction accuracy** for a leading energy company.
- Worked on design and implementation of a highly reliable and available **microservices architecture** to support similar forecasting tools built by the department.

Developer Analyst Intern

May 2023 – December 2023

Mariner Innovations, Fredericton, NB

- Responsible for end-to-end SDLC and **Fullstack web application** including authentication/authorization, testing and deployment of an automated survey tool for assessing the industry readiness for companies.
- Leveraged the experience from working on the first tool to work on a government project with similar responsibilities for building a tool for safe and **controlled communication between ships** and ports within Canada.

Member Technical

June 2021 – January 2023

Broadridge, Hyderabad, India

- Handled **End-to-End Fullstack development**, deployed **blockchain code**, built and managed containers across different environments like Dev, QA, UAT and Production.
- Worked as a **GitLab** maintainer, responsible for version control and code maintenance, code reviews, merging changes and maintaining tags for the team.
- Collaborated effectively and assumed leadership for a medium-sized team, participated in daily **scrum** calls, addressed business needs, resolved support tickets and managed change processes for a **Blockchain-based solution** and contributed to winning the **NASSCOM 2021 Innovation** – Excellence award for the project.

System Engineer

May 2019 – June 2021

Tata Consultancy Services, Hyderabad, India

- Monitored the performance and metrics, **debugged** issues, reported **root cause analysis** and took ownership of planned and unplanned outages for the **backend of a highly available software** application being used in over **100 countries** with separate isolated environments in both on premise and cloud environments.

Volunteer Work, Achievements and Special Interests

- Built a **homelab using a bare metal** PC acting as a home server to implement a **network-wide adblocking**, a self-hosted multimedia streaming service similar to Netflix and a **personalized cloud storage platform**.
- Volunteered for Usher/Greeter/Cloak Room Attendant roles at the Fredericton Playhouse:
 - Greeted the patrons and guests with a fulfilling smile as a Greeter
 - Helped them secure their coats and belongings as a Cloak Room Attendant
 - Assisted the patrons in finding their seats and answered any questions related to the shows as an Usher
- Volunteered as a **Technical Assistant** for the **Graduate Student Association** of University of New Brunswick and helped them in building/updating their website with information on new events and important news
- Interested in travel, making new friends, learning about new cultures and being a part of the local community
- Secured an overall score of 10 in the **CELP** Language Requirements Test