

# Roger Richard Demello

Aspiring Software Developer | C++ Enthusiast | ML Aspirant | AWS Cloud Practitioner  
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## PROFESSIONAL SUMMARY

Aspiring software developer with strong C++ and Python skills and a growing focus on machine learning. Experienced in developing AI-driven healthcare and automation solutions. Skilled in data analysis, cloud computing (AWS), and applying software engineering principles to real-world applications.

## TECHNICAL SKILLS

**Programming Languages:** C, C++, Python, Java

**Machine Learning & AI:** CNN, RNN, Transformers, Prompt Engineering, Libraries, TensorFlow, Keras

**Cloud Computing:** AWS (EC2, S3, Lambda, IAM, RDS, CloudWatch, VPC)

**DevOps & Tools:** Git, GitHub, CI/CD

**Software Engineering Concepts:** OOP, Data Structures & Algorithms, DBMS, Operating Systems

## EDUCATION

### Shri Ramdeobaba College of Engineering and Management

Nov 2022 – May 2026

- Bachelor of Technology in Electronics and Communication CGPA: 8.76
- Minor in Artificial Intelligence and Machine Learning CGPA: 9.5

## PROJECTS

### LifePulse – AI-Driven Health Monitoring Platforms [[GitHub](#) | [Live Demo](#)]

- Technologies:** Flask, Python, TensorFlow, Scikit-Learn, XGBoost, Pandas, Google Gemini AI, Rule-Based Engine
- Developed end-to-end AI-powered health assessment platforms combining machine learning and rule-based systems to provide personalized health insights.
- Implemented ML models for disease risk prediction, lifestyle analysis, and health scoring, achieving up to 91% accuracy across modules.
- Integrated Google Gemini AI for intelligent nutrition and wellness recommendations.
- Designed and deployed scalable Flask web applications on Render with CI/CD automation via GitHub.

### GAN for Image Generation [[GitHub](#)]

- Technologies:** TensorFlow, Keras, Python
- Improved a Generative Adversarial Network (GAN) to generate realistic images from random noise.
- Implemented both Generator and Discriminator models, trained to enhance image realism using TensorFlow.
- Demonstrated high-quality image generation results on the MNIST dataset, showcasing effective deep learning techniques in image synthesis.

## EXPERIENCE

### Machine Learning Intern

May 2025 – July 2025

CFM, RCOEM

- Enhanced an ML-based tool to predict sleep disorders using lifestyle and health data.
- Attained 87% accuracy in predicting sleep disorders by analyzing factors such as stress, sleep duration, and blood pressure.
- Utilized Python, Scikit-Learn, and Pandas for model development and data analysis.

## TRAINING

### AWS Cloud Computing Training

March 2025 - April 2025

RCOEM

- Gained hands-on experience with core AWS services: EC2, S3, RDS, IAM, VPC, and CloudWatch.
- Designed and deployed a scalable web application architecture using Auto Scaling and Load Balancer.
- Implemented secure access management with IAM roles, policies, and multi-factor authentication (MFA).

## CERTIFICATIONS

- AWS Certified Cloud Practitioner** – Amazon Web Services
- Introduction to Machine Learning on AWS – Coursera/AWS

*Issued: Oct 2025*

*Completed: July 2025*

## ADDITIONAL INFO

- NCC ‘A’ and ‘B’ Certificate holder.
- Currently serving as an NCC Cadet.
- Developed leadership, discipline, and teamwork through active NCC training and drills.