

Umarani M

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Summary

Passionate engineering professional with a strong foundation in Machine Learning and web development. Aiming to apply my skills in machine learning and web development to impactful projects as a Software Developer. Eager to contribute to innovative solutions while learning from experienced professionals in a collaborative environment.

Internship

Project Trainee

Sept 2025 – Jan 2026

Zoho Corporation Pvt. Ltd., Palladam

- Gained hands-on experience in Java, PostgreSQL, and Servlets during internship training.
- Developed a Task Management application with full CRUD functionality and database connectivity.

Quantum Computing Developer Intern

Apr 2024 – July 2024

KwantumG Research Labs Pvt. Ltd., Bangalore

- Collaborated with the research team to explore real-world use cases of quantum algorithms.
- Built and maintained the platform demo.kwantumg, a sandbox-style learning platform using **Django** and **PostgreSQL**, ensuring scalable backend operations and smooth integration with quantum libraries.

Education

B.Tech in Information Technology - 8.83/10(upto 7th semester)

2022 - 2026

KPR Institute of Engineering and Technology

12th Grade - 91.83%

2021 - 2022

Swamy Vivekhanandha Matric Higher Secondary School

Projects

demo.kwantumg Platform

demo.kwantumg.com

- Developed the backend of an interactive web platform enabling beginners to explore and experiment with quantum algorithms in a sandbox-style environment.
- Implemented a **JWT-based authentication** using **Django**, and integrated **PostgreSQL** for secure, scalable, and efficient data management.

Legal Bert Advisor

legal_bert

- Designed a legal advisor system with User and Lawyer modules, integrating **Legal BERT** to classify petitions by case type.
- Built the system using **Python**, **SQLAlchemy** with a user-friendly **HTML**, **CSS**, **JS** frontend for seamless interaction and accessibility.

Skills

Programming Languages: C, Python, Java

Web Technologies: HTML, CSS, JavaScript

Frameworks: Django, Flask

Databases / Tools: PostgreSQL, MySQL, Figma, Canva

Version Control: GitHub

Soft Skills: Analytic Thinking, Team Coordination, Efficient Planning, Problem Solving

Achievements

- **Top 50 Finalist** – Standard Chartered Global Hackathon 2025
- **Semi Finalist** - Flipkart Grid 7.0
- **Competitive Coding:** 5-star Gold badge in Problem Solving (HackerRank), 200+ problems solved on LeetCode
- **Certifications:** Elite+Silver in Foundations of R Software (NPTEL), Git Foundations Certification, Introduction to GenAI(Google Cloud), Introduction to LLM (Google Cloud)
- **Leadership:** Chair of IEEE Information Theory Society