

# LAKSHYA PRABHAKAR

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## SUMMARY

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Aspiring **Software Developer** with hands-on experience building **scalable full-stack applications** using **MERN stack**. Strong foundation in **system design, data structures and algorithms (DSA)**, and **frontend engineering**. Proficient in developing **REST APIs**, **optimizing database performance**, and **integrating Generative AI** into real-world solutions.

## SKILLS

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

**Databases:** MySQL, MongoDB

**Tools and Frameworks:** React.js, Git, Docker, Node.js, Express, Postman, Redux

**Technical Skills:** Problem Solving, Data Structures and Algorithms (DSA), System Design, OOPS, OS

## PROJECT WORK

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- **ECHOES (SNS WEB APP)** | (HTML, CSS, React.js, Tailwind, MongoDB, Node.js, Express) [\[Link\]](#) | [\[GitHub\]](#)
  - **Full Stack** MERN-based social media platform. Implementing the **MVC architecture**, and used **React Router**
  - Implemented **authentication & JWT token authorization** for secure user management.
  - Optimized database queries using **indexing**, **reducing query times and improving scalability for handling large datasets by up to 70%**, while simulating **real-time responsiveness**
  - Enhanced **REST API efficiency by implementing pagination**, **improving response times and reducing server load** in larger dataset **by up to 80%**.
- **LINKLY** | (HTML, CSS, React.js, Bootstrap, PostgreSQL, Node.js, Express) [\[GitHub\]](#)
  - Shortened over **1,000+ URLs**, improving shareability and link tracking **by 80%**, **by building a full-stack web app** with persistent storage.
  - Improved **API response time by 40%** through efficient RESTful CRUD operations for user-specific URLs.
  - Secured user data using JWT-based authentication, enabling isolated access for **100+ registered users**.
  - Designed a dynamic Admin Dashboard to monitor click analytics, including geolocation and OS detection, enhancing data visibility for users.
  - Reduced backend **errors by 30%** by implementing consistent input validation and centralized error handling.
- **RENTLY** | (HTML, CSS, React.js, Bootstrap, MongoDB, Node.js, Express) [\[Link\]](#) | [\[GitHub\]](#)
  - Developed a full-stack MERN application focused on property listing and rental management.
  - Designed and **implemented REST APIs to handle end-to-end CRUD operations** for properties and user data.
  - Integrated secure, **session-based authorization** and access control to protect sensitive user actions.
  - Structured backend logic using the **MVC pattern** to enhance code maintainability and scalability.
  - Ensured consistent **data validation and error handling** across all backend services.
- **QuizzBot** | (LangChain, LoRA, Streamlit, Hugging Face) [\[GitHub\]](#)
  - Developed an AI-powered quiz generator that creates context-aware questions from user input using a **LoRA fine-tuned pretrained LLM**, **improving question relevance by ~70%**.
  - Utilized **LangChain** to manage prompt flow and chaining, enabling modular and scalable generation logic.
  - Integrated **with Hugging Face API** to access and deploy advanced language models with minimal latency.
  - Used streamlit for easy UI

## EXPERIENCE

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**Machine learning and GEN AI Summer Trainee:** [\[Link\]](#)

AUGUST 2024

AI-SHALLA

- Gained hands-on experience in **LLMs, Transformers**, and **Retrieval-Augmented Generation (RAG)** using **Python and Hugging Face**.
- **Fine-tuned** large language models with techniques like **LoRa**, improving task-specific performance by **25%**.
- Built **QuizzBot, an LLM-based quiz generator** fine-tuned on custom datasets; generated personalized quizzes with over **90% accuracy** in topic matching.
- Ranked **2nd of 70 participants** based on performance metrics and final project evaluation.

EDUCATION

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<b>B. Tech in Information Technology</b> , Maharaja Surajmal Institute of Technology, GGSIPU (2022-26)	CGPA: <b>7.92</b>
<b>12th Grade (PCM)</b> , St. Cecilia's Public School, 2021	PERCENTAGE: <b>96.6%</b>
<b>10th Grade</b> , St. Cecilia's Public School, 2019	PERCENTAGE: <b>96.8%</b>

ACHIEVEMENTS

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- Ranked 2nd in Machine Learning and Generative AI summer training
  - Solved 400+ DSA problems on **LEETCODE**
  - Scored **92%** in **Object-Oriented Programming Skills**
  - 900+ rating on CodeForces