

Lakshmi Kar Pathak

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Education

Indian Institute of Technology, BHU (Varanasi)
Bachelor of Technology in Civil Engineering

Nov 2020 – May 2024
CGPA: 8.49/10

Experience

Software Engineer, Visioapps Technology – Gurgaon, India

Feb 2025 – Jul 2025

- Developed an AI-driven, **voice-controlled mutual fund application** using **Angular** and the **Louie Voice SDK**, enhancing the user interface and improving user interaction speed by **40%**.
- Designed the architecture of **KYC and non-KYC onboarding workflows** for **Tata Mutual Fund**, including **SIP** and **lump-sum transaction** flows, as well as **folio creation**, resulting in a **30% reduction** in onboarding time. This improvement supported the company's expansion across equity, passive, hybrid, and arbitrage segments.
- Improved **Voice Activity Detection (VAD)** by optimizing microphone input timing (**3 seconds** for short commands, **8 seconds** for long commands), which enhanced **speech detection accuracy** and reduced **latency**, enabling smoother, real-time voice interactions.
- Built a speech-controlled **banking app** in React with support for IMPS, NEFT, RTGS, and OTP verification; implemented global voice commands, varied the **speech rate**, and tested across 50+ real-world scenarios.
- Integrated **multilingual TTS**, improving regional accessibility and reducing user confusion by **65%**.

Software Developer Intern, TechCospace Technologies – Noida, India

May 2023 – Jul 2023

- Engineered a **responsive dashboard** with role-based access control using **ReactJS** and **MySQL**, deployed internally across three teams, managing **1,000+ records**. Constructed and optimized **RESTful APIs** with **Node.js** and **Django**, enhancing **backend performance** and reducing **API response times** by **20%**.
- Designed and launched a **newsletter subscription service**, enhancing **user engagement** and increasing retention touchpoints, contributing to higher interaction frequency and improved user lifecycle metrics.

Projects

Foodie

Aug 2023 – Oct 2023

- Assembled JWT-based authentication and **cart features** with **React** and **Node.js** to streamline ordering.
- Enhanced checkout flow and navigation to deliver a seamless, responsive user experience across web platforms.
- Tech Stack:** React, Context API, Node.js, Express, JWT, bcrypt.js

Chatter-Box

Sep 2022 – Nov 2022

- Built a real-time messaging app using the **MERN stack** and **Socket.IO** for instant, bi-directional communication.
- Implemented JWT-based authentication and optimized MongoDB for scalable, concurrent sessions.
- Tech Stack:** React, Express, Node.js, MongoDB, Socket.IO, JWT

Technical Skills

Frontend: HTML, CSS, JavaScript, React.js, AngularJS

Backend: Node.js, Express.js, MySQL

Languages/Concepts: C, C++, OOP, Operating Systems, DBMS, SQL

Tools/Infrastructure: Git/GitHub, CI/CD

Achievements

- Highest Global Rank **432** in Starters 23 Div 3 on Codechef (lakshmi_543)
- Highest Rank **3116** in Educational Codeforces Round 119 Div 2 (ritika_pathak_09)

Extracurricular Activities

- General Secretary, CES:** led 6 teams to organize SHILP, hosting 50+ teams from 30+ colleges.
- PR Manager, FMC Weekend '23:** led 32 coordinators, and organized media outreach for 300+ participants.