Lalit Mohanani

✉ 21cs02006@iitbbs.ac.in 📱 (+91) 8329067234

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IIT Bhubaneswar

Computer Science and Engineering
4th Year Undergraduate

Education

Year	Degree/Examination	Institute	%/CGPA
2021-2026*	Dual Degree in Computer Science	Indian Institute of Technology, Bhubaneswar	**8.99/10**
2021	Std. XII (CBSE)	Shree Swaminarayan Gurukul School, Hyderabad	**96.4%**
2019	Std. X (CBSE)	Shree Swaminarayan Gurukul School, Hyderabad	**95.2%**

Technical Skills

Programming Languages: C, C++, MIPS Assembly, JavaScript, PHP, Python, Cuda

Framework: ReactJS, ExpressJS, NodeJS, NextJS

Database: MySQL, MongoDB, Oracle PL/SQL

AI/ML Libraries: LangChain, Transformers, PyTorch, TensorFlow

Other: AWS, Docker, Linux, Git

Courses: Data Structures and Algorithms, Discrete Structures, Design and Analysis of Algorithms, Operating Systems, Computer Architecture, Formal Languages and Automata Theory, Computer Networks, Database Systems.

Experience

AI/ML Intern, Kare4U Healthcare Solutions Pvt. Ltd   *(Feb 2024 - Present)*
- Trained and fine-tuned open-source xTTS models using Mozilla Odia and Hindi voice dataset.
- Created and curated a dataset for an appointment booking chat model and fine-tuned it using SFT training on LLaMA.
- Developed a tool for summarizing long meeting transcripts using Mistral v0.3 and LLaMA3.

Freelance Software Developer, vDev, inc   *(Jan 2024 - April 2024)*
- Architected and deployed Docker containers for a microservices architecture.

Research Intern, Samsung R&D Institute India-Bangalore   *(June 2024 - Present)*
- This is part of Samsung Prism worklet for my B.Tech project, guided by Dr. Srinivas Pinisetty.
- Researching resource utilization patterns in C/C++ code.
- Developing an automated CLI tool to report energy consumption inefficiencies.

Projects

KAWS Research Paper Implementation   *(February 2023 - March 2023)*
- Developed modifications for GPUs based on research for a Computer Architecture Lab project.
- Implemented a Kernel Aware Warp Scheduler with Warp Sharing mechanism, enhancing resource utilization.
- Technologies: C++, Python, Shell, GP-GPU Sim. *Project link, Paper link.*

Android App for GC'23 *(Download)*   *(February 2023 - March 2023)*
- Implemented push notifications using Expo for live score updates.
- Technologies used (3): React-native, Firebase and Expo. Project link *link*.

Hostel Management Portal   *(September 2022 - October 2022)*
- Developed and deployed a complaint filing system for all 5 hostels (2500+ residents) at IIT Bhubaneswar. *Website link*.
- Technologies: HTML5, Bootstrap, PHP, and MySQL. *Project link*.

Certifications

- ML specialization and NLP with Attention Models from Coursera by DeepLearning.ai. *(View certificate)*
- JPMorgan Software Engineering Virtual Experience Program on Forage - June 2023 . *(View certificate)*
- AWS Cloud Technical Essentials course from coursera - September 2023 . *(View certificate)*

Scholastic Achievements

- Secured an All India Rank 2420 in JEE-Mains 2021 with 99.8 %tile and All India Rank 4280 in JEE-Advanced 2021.
- Represented IIT Bhubaneswar in InterIIT Techmeet 11 held at IIT Kanpur.
- Achieved a rating of 1742 on Codechef *(lalit_mohanani)* and 1349 on Codeforces *(lalit_mohanani)*.
- Received Gurukul Gaurav Award given to top 25 alumni from 25000 .

Positions of Responsibility

Web and Design Society, IIT Bhubaneswar   *(December 2023 - May 2024)*
Governor of Society and Web Development Club Head
- Maintained various institute websites and coordinated web-development competitions.

Alma Fiesta (Socio Cultural - Fest), IIT Bhubaneswar   *(May 2022 - March 2024)*
Core Head, Web and Design Team
- Responsible for building and maintaining the fest's website. *(almafiesta.in)*