

Lakshmi Srinath

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EDUCATION

Indian Institute of Technology, Kanpur

Master's in Design

Uttar Pradesh, India

July 2024 – May 2026

National Institute of Technology, Calicut

Bachelor of Architecture ,CGPA: 8.28/10.0, First Class with Distinction

Kerala, India

Aug. 2018 – May 2023

Indian School Al Ghubra

—Grade 12th : 94/100 ,Grade 10th: 10.0/10.0 ,Science

Muscat, Oman

2006 – March 2018

EXPERIENCE

System Design Engineer Intern

Microsoft

May 2025– July 2025

Hyderabad, India

- Conducted exploratory research within Bing organization to identify opportunities in Visual Search and Windows Spotlight in the product vision and roadmap alignment.
- Conducted user research through informal interviews and research on stakeholder engagement to evaluate usability and customer needs.
- Designed high fidelity interfaces that were scalable from micro level to high level ideas and ensure feasibility.

Architect Trainee

Engineering Innovation and Design Consultancy

Dec 2021– June 2022

Muscat, Oman

- Prepared Construction document from revision phase through final issued for construction (IFC) drawings for a hotel renovation project. Collaborated with the structural engineering team to develop accurate as built drawings.
- Rendered concept proposals and layouts for client meetings out of which one site layout was approved and taken forward by the client for the execution stage.
- Conducted site visits and created detailed site reports documenting the construction progress of a data center project.

PROJECTS

Swarings | *Arduino, Sensors, MIDI*

January 2025 – March 2025

- Designed and prototyped a MIDI instrument where rings are integrated on a pipe to enable touch-based note generation, sliding for pitch bending, and rotation for sound modulation
- Prototyped using joystick and potentiometer-based analogue signals along x and y axes routed to a microcontroller, with output synthesized using DAW
- Developed two working prototypes and conducted pilot studies, analyzing feedback to extract key themes and validate the concept
- Filed an Indian patent for the invention; work was accepted in the Poster Track at UIST 2025

Tabla Glove | *Arduino, MIDI*

January 2025 – March 2025

- Designed an electronic glove that functions as a time-keeping accompanist for Indian Classical Vocalists, mapping finger-to-thumb interactions to produce real-time tabla bol sounds
- Implemented touch inputs to complete a circuit, sending data to a XIAO microcontroller board which maps digital signals to MIDI numbers for playback via Studio One DAW
- Developed three prototypes and conducted pilot studies, extracting themes to validate user experience
- Filed an Indian Patent for the device, showcasing innovation in classical music accompaniment

Psoriasis Comb | *Sketchup, blender*

January 2025 – March 2025

- Designed an ergonomic passive comb for individuals with scalp psoriasis and psoriatic arthritis that consider the needs of people with moderate to severe psoriasis
- Created iterations through step by step user feedback to refine ergonomics and usability
- Zoned in on two forms to 3D print prototypes to compare iterations and understand the ergonomics and functionality

CERTIFICATIONS

Computational Design, Smart Labs

Aug 2023

Grasshopper, Rhino, Maya, AI prompt workflow, basic python.

Rat[lab]s

- A 6-month intensive program of computational design with online classes and in-person studio sessions.
- Its syllabus is designed to cover- Advanced Architecture Design, Digital Fabrication and Artificial Intelligence.

Speculations on Posthuman Architecture: Virtual Ecologies & Non-Human Presence

Aug 2023

Maya, Unreal Engine

Digital Futures

- Gain insights on Experiential Architecture in a Virtual Medium
- An understanding of the workflow with the use of AI-Maya-Unreal Engine.

Sustainable Building Lab by MIT

June 2021– August 2021

Grasshopper Ladybug plugin, Rhino

Edx

- Understanding the applications of environmental analysis in the concept and design development stage.
- Acquire theoretical understanding of the various concepts and applications of sustainable practices.

ACHIEVEMENTS

Kajaria Meritorious Award by Kajaria, Tiles Company

Sept 2023

- An award given to the top three students from the top ten colleges given by the NRIF Architecture Ranking in India for the batch of 2018.

KIA Motors Art Competition

April 2010

- first and third prize winner of KIA Motors Arts Competition.

Science without Border Challenge for the theme Reef Superspecies.

June 2017

- Shortlisted till the Semi-final round for an international student art competition.

CONFERENCE

Swarings: Exploring Expressive Freedom through Ring-Based Musical Interaction

Oct 2025

- Accepted for the poster track at UIST Conference 2025 held at Busan, Korea

Swarings: Exploring Expressive Freedom through Ring-Based Musical Interaction

Nov 2025

- Accepted for the demo at India HCI 2025

Tabla Glove : A musical accompanist for musical training and exploration

Nov 2025

- Accepted for the demo at India HCI 2025

PATENT

Swarings

July 2025

- Indian Patent filed under application No. 202511072744

Wearable musical device for simulating Indian Classical

July 2025

- Indian Patent filed under application No. 202511071234

TECHNICAL SKILLS

primary Software: Sketchup ,AutoCad, Rhino, Grasshopper, Blender, Figma, Frammer, Unity 3D, Unreal Engine, Touch Designer, Arduino, Lumion , Maya

Secondary Software: Sketchup ,AutoCad, Rhino, Grasshopper, Blender, Figma, Frammer, Unity 3D, Unreal Engine, Touch Designer, Arduino, Lumion , Maya

Coding: Python, Flask