

# Labish Bardiya

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## About

Founder, Bruxlix (Patent-Filed, 2xAward-Winning) • Building CureNet (Decentralized EMR Interoperability Platform for India)  
• AI Researcher, STRIDE Lab – UofSC • Samsung Semiconductor Fellow • Builder and Innovator: Prototypes to Production

## Education & Contest Ratings

<b>JK Lakshmipat University, Jaipur, Rajasthan</b> <i>Bachelor of Technology in Computer Science Engineering</i>	<b>Aug 2023 – Present</b> 8.607 CGPA	
<b>Indian Institute of Technology, Gandhinagar</b> <i>Visiting Scholar – Bachelor of Technology in Computer Science Engineering</i>	<b>Aug 2024 – Dec 2024</b> 7.40 CGPA	
<b>10th, 12th Standard CBSE – 92.5/100, 89/100, respectively</b>	<b>April 2020 – April 2023</b>	
<b>Contest Ratings</b>		
<u>CodeChef – 1501 (2 star)</u>	<u>LeetCode – 1507</u>	<u>GeeksforGeeks – 1656 (3 star)</u>

## GATE 2026 – Computer Science & Engineering (CS)

**Score:** 434 / 1000                      **Marks:** 37.19 / 100                      **AIR:** (Top 6.6%)

## Skills

- **Languages** – Python, C++, JavaScript, TypeScript, SQL, HTML, CSS
- **Frameworks/Libraries** – ReactJS, NextJS, NodeJS, Express.js, MongoDB, PostgreSQL, Tailwind, Scikit-learn, TensorFlow
- **Tools** – Git, Docker, Ubuntu Linux, MATLAB, Xilinx, Figma
- **Relevant Coursework** – Data Structures and Algorithms, Machine Learning, Computer Networks, Computer and Network Security, Operating System, Optimization for CS, AI: Multiagent Systems, Computer Organization

## Experience / Position of Responsibility

**Founder – Bruxlix (Healthcare AI Startup)** **Nov 2025 – Present**  
– **Founded** Bruxlix, a health-tech startup building non-invasive at-home wearables for bruxism, affecting 21% globally.  
– **Developing** a device and ML models that distinguish bruxism from normal jaw movement, replacing \$2,000 lab tests.  
– **Filed** provisional patents in India and the US for the core detection mechanism; preparing non-provisional filing.  
– **Won Special Jury Award + Rs. 50k** at InventX'25 (IIT Gandhinagar) and **1st + Rs. 10k** at the SDG Challenge (MUJ).  
– **Presented** at the AI x MedTech Startup Hackathon & Cohort 2025 (Chandigarh University); pursuing clinical validation.  
– **Skills:** Hardware Prototyping, Biomedical Signals, IP Strategy, Product Development, Pitching, Business Strategy.

**Research Intern – STRIDE Lab, AI Institute, University of South Carolina** **July 2025 – Sept 2025**  
– Conducted research at **STRIDE Lab on Agentic AI and Reinforcement Learning**, supervised by Dr. Utkarshani Jaimini.  
– **Reviewed** healthcare research papers; investigated causality combined with MARL can improve clinical decision-making.  
– **Skills:** Agentic AI, Multi-Agent Systems, Reinforcement Learning, Academic Writing, Research Methodology.

**Inventor: @InventX'25 held at IIT Gandhinagar** **May 2025 – July 2025**  
– **Completed** a 6-week residential program with 12+ maker hours/day focused on design, prototyping, and pitching.  
– **Filed provisional patents** in India and the US; preparing for non-provisional patent filing.  
– Mentored by Prof. Madhu Vadali and Prof. Eric Lima on innovation, IP, and product development.  
– **Skills:** Design Thinking, Prototyping, Critical Thinking, Pitching and Storytelling, IP Drafting, Team Collaboration.

**Website Developer: HackJKLU v4.0 (Visit Website)** **Dec 2024 – March 2025**  
– **Led a team of 10** to develop HackJKLU v4.0's website, strengthening online visibility and team collaboration.  
– **Developed** 3D animations using Three.js and React Three Fiber, refining UI and achieving a **90 Lighthouse Score**.  
– **Integrated Framer Motion** for animations and countdowns, enhancing engagement and user interaction.  
– **Refined performance** through image compression and lazy loading, decreasing load time by 30%.  
– **Skills:** Next.js, React.js, TypeScript, Tailwind CSS, Three.js, Framer Motion, UI/UX Optimization, Performance Tuning.

**Open Source Contributor: Hacktoberfest** **Oct 2024 – Nov 2024**  
– Contributed 5+ **pull requests** to IIT Gandhinagar Resume Generator (**Lighthouse Score: 89**) ([Visit Website](#)).  
– Worked closely with maintainers to resolve issues, refactoring code for clarity and improved functionality.

### Event Coordinator

**Competitive Programming Club, JKLU** **Oct 2024 – Oct 2025**  
**JKLU's Cultural Fest – SABRANG'23** **Aug 2023 – Oct 2023**

## Projects

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### CureNet: Health Intelligence SaaS Platform

Jan 2026 — Present

- **Architecting** patient-owned decentralized ABHA platform on ABDM framework to eliminate data fragmentation.
- **Engineered** FHIR R4 interoperability layer with Zero-Knowledge Proofs for secure, privacy-first health data exchange.
- **Developed** ABHAY AI, a multilingual clinical summarization engine for one-shot insights in <10 seconds for doctors.
- **Built** offline-first QR/NFC access system and Claims Pre-Audit engine to reduce duplicate testing and claim rejections.
- **Skills:** Flutter, Dart, FHIR R4, ABDM Integration, Zero-Knowledge Proofs, AI Summarization (RAG)

### MVC: Mini Version Control System

Oct 2025 – Nov 2025

- **Built** a local version control kernel in C, implementing `init`, `add`, `commit`, `log`, `revert`, `trace`, and `timewarp` commands.
- **Designed** core data structures: FNV-1a, dynamic file maps, and commit history walked backward functionality.
- **Engineered** deterministic commit IDs with an integrity checker for verification.
- **Built** a browser frontend that parses the `.cs` directory and visualizes the commit, stage, and file with a timeline slider.
- **Skills:** C, Data Structures, Hashing, Linked Lists, Shell Scripting, JavaScript, HTML/CSS.

### JKLU Ride-Sharing Platform

Sept 2025 – Nov 2025

- **Built** a production-grade campus ride-sharing backend restricted to `@jkl.edu.in` accounts, with JWT auth.
- **Designed** the DBschema and Prisma ORM layer covering Users, Rides, Payments, Feedback, and SOS Logs.
- **Implemented** dynamic fare-splitting logic, cancellation policy, and a credibility scoring system tracking user behavior.
- **Built** UPI-first payment processing with QR code generation and a committee governance module for SOS monitoring.
- **Skills:** TypeScript, Node.js, Express.js, PostgreSQL, Prisma ORM, JWT, Zod, REST APIs, System Design.

### Power-Grid Optimization and Visualization Tool

March 2025 – April 2025

- **Engineered** a power-grid optimization tool using **Dijkstra's**, **Kruskal's MST**, and **Edmonds-Karp** max-flow algorithms.
- **Developed** an interactive Dash-based visualization tool to analyze power grid routing, failures, and edge criticality.
- **Computed** edge weights from distance, load demand, and failure probability to improve routing performance.
- **Visualized** failure impact, edge criticality, and flow-cuts to make grid dynamics accessible and interpretable.
- **Skills:** Python, Dash, NetworkX, Plotly, Algorithm Design and Optimization, Data Visualization, Graph Theory.

### Secure Server-Client Banking Application

Sept 2024 – Nov 2024

- **Engineered** a secure banking system using TLS/SSL, integrating RSA and AES encryption for end-to-end security.
- **Designed** session management achieving 100% verified transactions, strengthening data integrity.
- **Built** a multi-threaded architecture for handling concurrent requests, optimizing system scalability.
- **Skills:** C++, OpenSSL, RSA/AES Cryptography, Multi-threading, Socket Programming, TLS/SSL Protocol.

## Achievements

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- **1st Place + Rs. 10,000 at SDG Innovation Challenge 2026 (Manipal University Jaipur)** – Won for Bruxlix, a wearable ML-powered sleep bruxism detection device, recognized for impact on SDG Goal 3 (Good Health), early detection of non-communicable diseases, and healthcare equity.
- **Won the Special Jury Award @InventX'25, IIT Gandhinagar** – Among **top 30 nationwide** for this competitive six-week residential innovation program; won the **Special Jury Award + Rs. 50,000** for outstanding innovation.
- **Selected for ISRO Immersion Startup Challenge (2025)** – Presented *GeoBharat*, an AI geospatial intelligence using ISRO satellite imagery for flood detection and disaster response, **among 16 selected innovators nationwide**.
- **Rank 1 in Practice School I – JK Lakshmipat University (Dec 2025)** – Ranked 1st among the entire B.Tech 2023 batch under absolute evaluation; scored Grade A, 10 Grade Point.
- **Finalist, BIS Build-a-thon 2.0 (2024)** – Designed and implemented an **Automatic HVAC System** for this national-level product design hackathon, emphasizing intelligent automation, energy efficiency, and sustainability.
- **Samsung Fellowship – India Semiconductor Workforce Development Program (2025)** – Secured a place in **Cohort 5** of this nationally competitive fellowship, jointly organized by **Samsung Semiconductor (SSIR), IISc, and Synopsys**.
- **100% Merit Scholarship and Dean's List (2023, 2024)** – Awarded a full merit scholarship for three consecutive years and earned a place on the **JKLU Dean's List x3** for consistent academic excellence.