

LAXMAN GAIDHANKAR

+91-88550 13674 | laxmangaidhankar44@gmail.com | linkedin.com/in/laxmangaidhankar | github.com/laxmangaidhankar

TECHNICAL SKILLS

Languages: C++, Java, Python, JavaScript

Backend & APIs: Node.js, Express.js, REST APIs, JWT Authentication, Socket.io

Databases: PostgreSQL, MongoDB, SQL, Firebase Firestore

Frontend: React.js, HTML, CSS, Material Design

Core Concepts: Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, Computer Networks, System Design Fundamentals

EDUCATION

Bachelor of Technology (B. Tech) - Electronics and Telecommunication Engg.

2025 - 2028

SCTR's Pune Institute of Computer Technology, Pune, Maharashtra

Diploma in Computer Engineering

2022 - 2025

ZES's Zeal Polytechnic, Pune, Maharashtra

PROJECTS

HeartBench — Privacy First Peer Support & Study Matching Platform

Ongoing

React (PWA) · Node.js · Express.js · Socket.io · MongoDB (Geospatial)

- Designing a **mobile-first** peer support and study-matching platform using MongoDB 2dsphere **geospatial proximity matching** to connect students by need category and location zone in real time.
- Engineered a **privacy-first matching engine** using pseudonymized identities and location fuzzing, replacing **public broadcast matching** with **secure server-side pairing**.
- Implementing **real-time request-response matching** via **Socket.io**, targeting **sub-3-second** match notification delivery.
- Developing **category-based escalation logic** to route high-sensitivity requests toward campus counseling resources rather than peer-only matching.
- Architecting for scale using **MongoDB geospatial indexing**, with **Redis-backed Socket.io scaling** identified as the production next step beyond demo scope.

RelayPay — Real-Time Payment Failover System

MERN Stack (MongoDB, Express, React, Node.js) · Socket.io · JWT — Android (Java + XML)

- Built a fault-tolerant UPI-style payment system that reroutes failed transactions to a pre-approved backup contact, recovering an estimated **~90-95% of simulated failed payments** without manual retry.
- Designed an atomic transaction ledger (MongoDB sessions) preventing partial-transfer states across concurrent wallet operations, tested with **10+ concurrent simulated transactions** with zero balance inconsistencies.
- Implemented real-time failover notifications via Socket.io, cutting failure-to-resolution time to **under 3-5 seconds** by replacing polling with push-based event delivery.
- Modeled realistic failure conditions (simulated network timeout, insufficient balance) affecting **~15% of transactions**, with automated failover triggering for each.

HACKATHON & COMPETITIONS

- Track Winner** at the **Build for Billions National-Level Hackathon**, organized by NITK, for developing an innovative solution addressing a real-world problem and presenting a functional prototype.
- Shortlisted** among the **Top 12 teams** out of **163+ teams** in the Startup Smackdown Hackathon, solving real-world startup challenges through rapid prototyping and agile product development.
- Selected** among the **Top 100 teams** out of **900+ teams** in the **AWS IIT Bombay ImpactX Challenge**, developing innovation-driven solutions with potential social and economic impact.

ACHIEVEMENTS

- Institute First Rank** – Diploma in Computer Engineering (93.83%)
- Solved **200+ LeetCode** problems