

HARSH KESHARI

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EDUCATION

Bachelor of Technology in CSE(AI)

Abdul Kalam Technical University (2021-2025)

EXPERIENCE

[Experiment Labs](#) | *Fullstack Engineer*

Nov 2024 - Present

- **Learning Management System (LMS)**

- **Engineered payment and enrollment reliability** by redesigning Razorpay flows with retry logic, fallback mechanisms, and cron-based automated reconciliation, ensuring seamless enrollment at scale.
- **Migrated platform infrastructure from AWS Lambda to EC2**, eliminating timeout errors across all long-running operations, improving overall system stability and scalability.
- **Developed analytics email service** with scheduled cron jobs to deliver periodic usage insights to client organisations, enhancing customer engagement.

- **Internship Portal (Built from scratch)**

- **Architected and developed a multi-tenant internship platform** with RBAC supporting two organization types—Internship Providers (companies) and Consumers (schools)—ensuring strict data isolation.
- **Developed and deployed full-stack application** using Node.js, TypeScript, Prisma, MongoDB, Redis, React.js, and TailwindCSS on Firebase/AWS EC2, achieving Lighthouse scores of 100% Best Practices and 94% Accessibility.

- **Customer Relationship Management (CRM)**

- **Built AI-powered activity recommendation feature** using OpenAI API to generate personalised suggestions for students based on their profiles, becoming a major revenue stream for the platform.
- **Designed and implemented a Calendar Module** for student-admin meetings (similar to Calendly), enabling slot requests, rescheduling, and video integration with Zoom and Google Meet.

[Xipper](#) | *Backend Developer*

Sept 2024 - Nov 2024

- **Built MVP backend** for a hotel booking platform with government ID verification (PAN, Aadhaar) using Node.js and Express.js, implementing RESTful APIs for booking, availability, authentication, and KYC validation.

OPEN-SOURCE CONTRIBUTION

Member & LaCE Quality Team Lead at [Oppia Foundation](#)

Nov 2023 - April 2024

- **Led the LaCE quality team**, managing task assignments for new contributors and conducting code reviews to ensure quality standards across user-facing features.
- **Contributed 10 merged PRs** using Python and AngularJS, implementing UI enhancements and comprehensive unit/end-to-end testing.

PROJECTS

Nexus (MERN Stack)

[GitHub](#) / [Website](#)

- **Built a live coding contest platform** for 300+ students with real-time CodeChef integration, web scraping for standings, and automated result generation.
- **Implemented secure authentication** using Passport.js and JWT, with separate student and admin portals for contest enrollment and management.

SKILLS

Languages & Frameworks: JavaScript/TypeScript, Python, Node.js, Express.js, React.js, Next.js, AngularJS, C/C++

Databases & Tools: MongoDB, PostgreSQL, Redis, Git, AWS (EC2, Lambda), Firebase, Postman