

Hridyesh Kumar

Delhi, India | +91 81302 52611 | hridyesh2309@gmail.com

github.com/hridyeshh | linkedin.com/in/hridyeshh | hridyesh.vercel.app | leetcode.com/hridyeshh

SUMMARY

- **Software Engineer (B.Tech, Mathematics & Computing)** with proven expertise in scalable full-stack development using **Next.js** and **AWS**. Delivered measurable business impact including **90% reduction in manual grading time** and **75% improvement in checkout conversion rates**. Strong foundation in system design and algorithms with hands-on experience building production-grade applications.

EXPERIENCE

- **AutoGrad - AI Exam Evaluation Startup** Delhi, India
09/2025 - Present
Software Engineer
 - Developed full-stack exam evaluation platform with React/TypeScript frontend and Python/FastAPI backend, integrating LangChain engine that **processes 100+ concurrent evaluations, reducing manual grading time by 90%** with real-time WebSocket progress tracking
 - Prepared RESTful APIs with MongoDB aggregation pipelines for parallel evaluation, implementing semantic answer chunking algorithm with Pydantic validation that **improves accuracy by 85%** and achieves **5x faster processing**
- **Limeroad** Gurugram, Haryana
02/2025 - 08/2025
Software Engineer
 - Engineered AddAddress feature with runtime permission handling and FusedLocationProvider API, **reducing checkout abandonment by 75%** and **improving address accuracy by 90%**
 - Constructed RESTful payment processing APIs using Java design patterns, **reducing query response time by 30%** and **successfully processing 1k+ transactions/day for 50k+ monthly active users**
 - Implemented fuzzy search using Levenshtein distance algorithm in TypeScript, **improving search match accuracy by 90%** and **reducing average query time from 1000ms to 100ms**

PROJECTS

- **PaperBoxd - Social Book Tracking Platform** TypeScript, Next.js 15, MongoDB, NextAuth, Tailwind CSS
paperboxd.in
10/2025 - Present
 - Devised a resilient "Hybrid Search System" that aggregates data from multiple providers (ISBNdb, Open Library), using a **Stale-While-Revalidate** caching strategy to reduce external API dependency by **80%** and cut latency from **500ms to less than 50ms**.
 - Built a custom Recommendation Engine using collaborative filtering and Maximal Marginal Relevance (MMR) to inject diversity into feed algorithms, processing user interaction signals (likes, reads, ratings) to generate personalized "Similar Books" and "Friend Activity" carousels.
 - Architected a high-performance frontend with Next.js 15 and React 19 Server Components, implementing optimistic UI updates and parallel data fetching to achieve less than **1.5s First Contentful Paint (FCP)** for complex dashboard views.
- **Mailify - Email Automation Platform** JavaScript, AWS Lambda, DynamoDB, Gmail API, OAuth2
github.com/hridyesh/Mailify
09/2025 - 10/2025
 - Designed and deployed **AWS Lambda functions** with **DynamoDB** for scheduled email delivery, implementing token refresh logic for long-lived sessions, RESTful API endpoints for email scheduling, and **TTL-based automatic cleanup**, reducing operational overhead while handling asynchronous email processing at scale.
 - Redesigned a bulk email management platform integrating **Gmail API** with **OAuth2 authentication** and JWT token management, implementing rich text editing with individual email delivery to **100+ recipients** with progress tracking and success/failure reporting.

SKILLS

- **Languages:** Java, Kotlin, TypeScript/JavaScript (ES6+), SQL, HTML5/CSS3
- **Mobile Development:** Android SDK, ARCore, Material Design, Jetpack Components, Dagger Hilt, MVVM, OkHttp, Gson
- **Backend & Databases:** Node.js, MongoDB, DynamoDB, Firebase (Firestore, Auth, Storage), REST APIs
- **Frontend:** React 19, React Native, Tailwind CSS, React Hooks
- **Tools & Cloud:** Git, GitHub, AWS Lambda, Android Studio, IntelliJ IDEA, PyCharm, Jupyter Notebook, Cursor

EDUCATION

- **Netaji Subhas University of Technology (Formerly NSIT)** Delhi
Bachelor of Technology in Mathematics and Computing
2021 - 2025
 - **Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Software Engineering, Computer Networks, Operating Systems, Optimization, Mathematical Statistics, Database Management System, Computer Architecture, Deep Learning, Design and Analysis of Algorithms