

Hridyesh Kumar

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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
Software Engineer 09/2025 - Present
 - 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
Software Engineer 02/2025 - 08/2025
 - 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/hridyeshh/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