

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 Intern 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, Serverless
paperboxd.in 10/2025 - Present
 - Architected a **multi-tiered Hybrid Search System** (Database → ISBNdb → OpenLibrary) with a custom **stale-while-revalidate** caching layer, reducing external API latency by 90% and costs by 80% via background data refreshment.
 - Devised a **weighted content-based recommendation engine** using **Maximal Marginal Relevance (MMR)** to re-rank candidates, dynamically injecting diversity into user feeds and solving the 'filter bubble' problem.
 - Built a **serverless 'Fan-out on Read'** architecture for the social activity feed, aggregating real-time user interactions via optimized MongoDB pipelines to achieve sub-200ms timeline generation for active users.
- **Mailify - AI-Powered Email Automation** Node.js, Google Gemini AI, PDF Parsing, Job Scheduling
github.com/hridyeshhh/Mailify 09/2025 - 10/2025
 - Designed a **context-aware Generative AI pipeline** integrating Google Gemini and PDF text extraction algorithms to dynamically generate hyper-personalized outreach messages based on resume content, **reducing drafting time by 95%**.
 - Created a **fault-tolerant batch dispatch engine** with persistent job scheduling and configurable rate-limiting strategies, ensuring **100% deliverability compliance** with SMTP provider thresholds during high-volume broadcasts.

SKILLS

- **Languages:** TypeScript, JavaScript (ES6+), Java, Kotlin, Python, SQL
- **Frameworks:** Next.js 15, React 19, Node.js, Express.js, Android SDK (Jetpack Compose), Tailwind CSS, Redux
- **Cloud & Databases:** MongoDB (Mongoose), AWS (Lambda, SQS), Firebase, Vercel, Serverless Architecture
- **Tools & DevOps:** Git, GitHub Actions (CI/CD), Docker, Postman, WebSockets, Google Gemini AI SDK, OAuth2

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