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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

Software Engineer

Delhi, India

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

Software Engineer Intern

Gurugram, Haryana

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/hridyeshh/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, AWS Lambda, 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