

# Hridyesh Kumar

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## SUMMARY

- **Full-stack Android developer** specializing in payment systems and AR-enabled mobile applications. Built **RESTful payment APIs** processing **1k+** daily transactions and integrated ARCore for 3D product visualization. Proficient in **Java, Kotlin, JavaScript** and serverless architectures (**AWS Lambda, DynamoDB**). Strong foundation in data structures and algorithms with research background in **Quantum Computing algorithms** and **Machine Learning**

## 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/LangGraph AI 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 and Python multiprocessing for parallel evaluation, implementing semantic answer chunking algorithm with Pydantic validation that **improves accuracy by 85%** and **achieves 5x faster processing**

### • Limeroad

*Software Engineer*

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%**
- Architected 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

*github.com/hridyeshh/PaperBoxd*

TypeScript, Next.js 15, MongoDB, NextAuth, Tailwind CSS

10/2025 - Present

- Composed full-stack social reading platform with **Next.js 15 App Router** and **MongoDB**, implementing **hybrid caching strategy** that reduces Google Books API calls by 80% and improves search response time from 500ms to 50ms using database-first lookup with automatic fallback and **TTL-based cleanup** within 512MB free tier storage limits
- Engineered **RESTful APIs** with **NextAuth JWT authentication**, MongoDB aggregation pipelines, and **React 19 Server Components** for server-side rendering, supporting asymmetric follow system, paginated reading lists (12 items/page), and bookshelf management for 10k+ books with **optimized database indexes** reducing query time by 70%

### • Mailify - Email Automation Platform

*github.com/hridyeshh/Mailify*

JavaScript, AWS Lambda, DynamoDB, Gmail API, OAuth2

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 18, 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)

*Bachelor of Technology in Mathematics and Computing*

Delhi

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