

# Harsh Kumar Tomar

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## Skills

**Programming Languages** - Python , Kotlin , Java , Dart

**Tech. & Frameworks** - Android Dev. , Git/GitHub , Firebase , Flutter , Fast API , SQL , SQLite , PostgreSQL , Docker , Visual Studio Code , IntelliJ IDEA , Android Studio , Postman

**Relevant courses** - Data Structure & Algorithms , OS , DBMS , Discrete Mathematics , Theory of Computation , AI , Digital logic design , Computer Networks , Software Engineering

## Experience

### Android Developer Intern - Chamberly AB

Remote , Stockholm, Sweden

June '24 - Aug'24

- Worked on existing Chamberly App and designed and tested different app components to match the ios version.
- Used AI model **gpt-3.5-turbo-0125** to generate summaries of the input. Added sentiment analysis to capture the emotional tone.
- Utilized **Retrofit** and **Firebase** for backend operations; implemented Android Navigation Components.

## Projects

### Medicine & Vaccine Expiry Alert System | [GitHub](#)

May '25

- Built a backend system to track medicine stock and send expiry alerts, helping rural clinics prevent expired drug use. Enabled audit-ready logs and daily notifications for health workers.
- Used **FastAPI** for fast, async APIs with auto-generated docs (~40% faster than Flask).
- Implemented **Celery** + **RabbitMQ** for 5x more efficient expiry alerts than traditional cron.

### VeriPass - Secure QR-Based Attendance & Access System | [GitHub](#)

January '25

- Designed and built a QR-based backend system enabling fraud-proof, verifiable attendance for schools, hostels, and workplaces.
- Implemented session-specific **qr codes** with Redis-backed expiry and metadata for secure, time-bound check-ins and audit-ready tracking.
- Leveraged **Fast API** for async APIs, **Redis** for caching and rate-limiting, and **Celery** to automate absence alerts and daily attendance summaries.

### Spotify | [GitHub](#)

September '24

- Recreated core features of Spotify, including music playback, playlists, and user interaction with media components.
- Integrated **Firebase** for user authentication and used its real-time database to manage track data.
- Built **custom views**, implemented media controls, & applied **dependency injection** to ensure scalable & maintainable architecture.

### Star-launcher | [GitHub](#)

October '23

- Developed a minimalist **launcher** to boost productivity & reduce distractions through fast app access & a focused UI.
- Engineered **AMOLED-safe** battery indicators using dynamic dot animations that change positions to prevent screen burn-in.
- Implemented **swipe** & **touch** gesture interactions, and optimized responsive layouts using MVVM architecture.

## Education

### G L Bajaj Group of Institutions

Mathura

B.Tech. in Computer Science And Engineering Specialization in AI CGPA - **7.02**

October '21 - June '25

### Central Board of Secondary Education

Noida

Intermediate - **86%** (2020) High School - **94%** (2018)