

Chirag Garg

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EDUCATION

- Indian Institute of Technology Madras** Remote
Bachelor of Science - Data Science and Applications 2024 - present
Courses: Data Science, Databases, Data Structures, Machine Learning, Web Development
- Guru Tegh Bahadur Institute of Technology** Delhi, India
Bachelor of Technology - Artificial Intelligence and Machine Learning 2022 - 2026
Courses: Artificial Intelligence, Machine Learning, Operating Systems, Data Structures, Analysis Of Algorithms, Networking, Databases
- Laxman Public School** Delhi, India
Senior Secondary XII (Science) 2021-2022
Graduated with 92.8%
- Laxman Public School** Delhi, India
Secondary X 2019-2020
Graduated with 92.8%

PROJECTS

- HLN-A - Discord bot for the game Ark: Survival Evolved** A discord bot written in python with the help of **discord.py** library. Used by more than 400,000 users in 8000+ servers.
Tech: **Python, discord API, PostgreSQL, Selenium, Rust**
- HLN-A - REST API** An **HTTP API** written for HLN-A Discord bot in python using **FastAPI** and **PostgreSQL**. Built for horizontal scalability and containerized via docker.
Tech: **Python, FastAPI, PostgreSQL, HTTP API, REST API, Docker**
- Krishi Gyan - To provide farmers with accurate soil information using sensor mesh technology** Developed a flutter app which integrates with IoT sensors to collect accurate soil information [Github Repository](#)
- Leetcode Reminders - Leetcode problem reminder app for spaced repetition practice** A web app that helps users practice coding problems using spaced repetition. Users set problem reminders, and the app reschedules them at increasing intervals for effective learning.
Tech: **Python, FastAPI, Flutter, SQLite3, Rest API** [Github Repository](#)
- CRSManager - App to completely digitize challans and track assets** Flutter app to help maintain challan records with built in asset management solution.
Tech: **Dart, Flutter, Google ML Kit, PostgreSQL, Supabase** [Github Repository](#)
- Resume Manager - Resume Hosting and Version Control System** Java Spring Boot application to manage and host resumes via a personal domain like **resume.chiggydoes.tech**. Supports uploading multiple PDF versions, selecting the current version, and downloading previous versions.
Tech: **Java, Spring Boot, Docker, GitHub Actions, Tailwind CSS** [Github Repository](#)
- Mime - WhatsApp Sticker management made easy** Import stickers from various platforms such as discord and telegram into WhatsApp sticker library using bots on respective platforms and a flutter app. Manage sticker packs, edit stickers, and use them in any sticker supporting app with help of ewesticker.
Tech: **Python, Supabase, Flutter, Dart** [Github Repository](#)

WORK EXPERIENCE

- Salescode.ai** Jan 2026 - Present
Technical Project Associate
 - Designed and implemented a generic **Kafka-backed task execution framework** in Spring Boot, enabling asynchronous execution of long-running tasks through config-driven topic routing, multi-threaded consumers, and automatic executor resolution.
 - Extended a Quarkus reporting platform** with custom Java executors, incremental data synchronization, and performance optimizations for **MySQL-to-Redshift** analytics pipelines.
 - Architected DataPulse, an internal **multi-tenant data platform** (FastAPI, PostgreSQL, Next.js/React) used across client tenants for data validation, reporting, and monitoring.
- Cirun** Jun 2025 - Dec 2025
Intern - Software Engineer Backend
 - Engineered a **custom Github Actions cache server** on **Cloudflare Workers** with **R2-backed metadata**, issuing presigned URLs for direct cache transfers to **S3-compatible object storage** (S3, GCS, Azure Blob Storage, Hetzner, etc.), reducing CI latency and eliminating GitHub storage dependency.

- Built a **Go-based transparent sidecar proxy** for ephemeral CI runners that **intercepted GitHub Actions cache traffic** using a **self-generated Certificate Authority (CA)**, enabling the unmodified GitHub cache client to seamlessly stream cache blobs to arbitrary object storage without workflow changes or intermediate buffering.
- **Automated CI/CD pipelines** and infrastructure provisioning using GitHub Actions, Docker, Traefik and Terraform for seamless deployment across services.
- Worked on a CLI tool to provision and manage Linux VMs via **cloud-hypervisor**, enabling lightweight, reproducible CI runners on demand.
- **Roomsvital** Feb 2025 - May 2025
 - *Intern - App Developer (Flutter)*
 - **Designed and developed** a production-grade **Flutter app** from scratch to control proprietary smart door locks via BLE, enabling real-time lock/unlock and scheduling.
 - Implemented secure communication using **X25519-based encryption** and **key management** for end-to-end encrypted interactions between mobile app and hardware devices.
 - **Shipped and maintained** the app across both **Android (Play Store)** and **iOS (App Store)**, with support for user authentication, access sharing, and remote device control.
- **Lucify Labs** Aug 2024 - Oct 2024
 - *Intern - App Developer (Flutter)*
 - Developed "**Nami**", a Flutter-based app for digitizing hotel activities, including task management, guest handling, and service management, targeting Android, iOS, desktop, and web.
 - Contributed to developing and **launching** the mobile app on **Google Play Store** and **iOS App Store** and participated in desktop **app development**.
 - Gained hands-on experience in startup environments, enhancing teamwork and cross-platform development skills.
- **ChillinQ** Jan 2023 - Mar 2023
 - *Intern - App Developer (Flutter)*
 - Contributed as a Flutter developer actively involved in the development of a **multiplatform mobile app** for Android and iOS users.
 - Gained valuable insights into **cross-platform development** practices and **mobile app architecture**, furthering my skills and understanding in the field.
 - Leveraged collective expertise and teamwork to **troubleshoot issues**, optimize code efficiency, and deliver a seamless cross-platform mobile **app experience**.

PUBLICATIONS

- **M. Singh et al., "Spring-Based Weight Determination System for Railway Wagons by Leveraging Suspension Compression," 2024 3rd Edition of IEEE Delhi Section Flagship Conference (DELCON), New Delhi, India, 2024, pp. 1-9, doi: 10.1109/DELCON64804.2024.10867262.**

SKILLS SUMMARY

- **Languages** Python, Java, Dart, SQL, Bash
- **Frameworks** Numpy, Pandas, Matplotlib, FastAPI, Flask, discord.py, Flutter, SpringBoot
- **Tools** Git, Docker, PostgreSQL, MySQL, SQLite, MongoDB, WSL, NGINX, Traefik, Caddy
- **Platforms** Linux, Unix, Web, Windows, Arduino, Raspberry, AWS, GCP, Mongo Atlas, Supabase, Firebase, Hetzner
- **Soft Skills** Critical thinking, Adaptability, Event Management, Writing, Time Management, Conflict resolution

EXTRA-CURRICULARS

- **Google Developer Student Club** Sep 2022 - Nov 2024
 - *App Developer Lead - Flutter Developer*
 - Developed cross platform apps using flutter.
 - Worked on a local first notes app using Mongo Realm.
 - Worked on Krishi Gyan - An app to help farmers optimize their way of farming and join farming communities.