

Arpit Prajapat

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Education

Indian Institute of Technology, Bombay

July 2017 - May 2021

- Bachelor of Technology in **Computer Science and Engineering**
- Secured **All India Rank 46** in **JEE Advanced** out of 2.2 lakhs candidates
- Secured **All India Rank 244** in **JEE Mains** out of 1.2 millions candidates

Work Experience

Structured Learning & Technical Upskilling

Nov 2022 - Present

- Strengthened systems thinking by synthesizing knowledge from quantitative methods and scientific philosophy
- Applied these analytical frameworks to architect, evaluate, and optimize complex software systems

Apnatime Tech

Bengaluru, India

Software Development Engineer - II

Jun 2022 - Oct 2022

- Led the collaboration with Vodafone Idea (VI) to implement **user authentication** for our mini-app within the VI Super App by decrypting shared encrypted user data using **AES and SHA**, resulting in a **15% increase** in users
- Migrated the **Job-Search** from a monolithic Django architecture to an internal **Gin-based Golang microservice**, leveraging **Redis and Elasticsearch**, resulting in an **60% reduction** in API response time
- Migrated the **Job-Feed** from a monolithic Django architecture to a **Gin-based Golang microservice**, utilizing **Cassandra, Redis, and Kafka**, reducing **latency by 50%**, improving scalability and system reliability
- Created a **Metabase dashboard** to analyze crawled vs generated sitemaps, automating data reconciliation and accelerating business **decision-making by 40%** through actionable insights

Apnatime Tech

Remote, India

Software Development Engineer - I

Jun 2021 - Jun 2022

- Engineered an automated cron job for XML sitemap generation, improving Google crawling, ranking, indexing, leading to **25% improvements** in rankings and **20% higher traffic** using **Redis, BigQuery, and GCS buckets**
- Engineered a scalable async system using **Redis, BigQuery, and Celery** to generate SEO-optimized URLs in web-page footers, **increasing organic traffic by 25%** through efficient processing and real-time updates
- Implemented rate-limiting in the OTP SMS service using **Redis and IP-based restrictions** at the load balancer, **reducing malicious requests by 60%** and improving system stability and security
- Enhanced OTP-based authentication by integrating multiple SMS providers, **reducing message delivery latency by 30%**, improving reliability by 25%, and **lowering costs by 20%**

Projects

Skribble | Node.js, Express, Socket.IO

[Source Code](#) [Play-now](#)

Nov 2025

- Built a real-time multiplayer drawing and guessing game using Node.js, Express, Socket.IO, and React, HTML5
- Added rounds, timers, scores, AI-generated words, live canvas updates and scalable event-driven gameplay

Discussion Forum | Golang, MongoDB, Gin, React

[Source Code](#)

Nov 2025

- Built a full-stack Discussion platform with authentication, Q&A, comments, voting, and a Responsive React UI
- Created a Gin backend handling JWT login, searching and every core feature of the platform using MongoDB

Secure Personal Cloud | Django, JavaScript, Bash

[Source Code](#)

Oct 2025

- Built a secure personal cloud system with web and Linux clients using local AES/DES encryption
- Designed a Django REST backend with JWT security, encrypted storage, and file syncing across various devices.

Skills

Frameworks: Gin, Django, FastApi, Node, Express, React

Languages: Python, Golang, Javascript, Typescript, Bash, SQL, C++, Java

Databases: Postgresql, MongoDB, Redis, BigQuery, Elasticsearch, Cassandra,

Technologies: Kafka, PubSub, Celery, RabbitMQ, GCP, CloudFunctions, CloudScheduler, Nginx

Miscellaneous: Git, Datadog, Sentry, Jenkins, Postman, Jira, Google Analytics