

# Chaitanya Bhardwaj | Software Engineer

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## SUMMARY

Full Stack Engineer (backend heavy) with 4+ years' experience building scalable microservices, event-driven systems, and low-latency APIs. Skilled in Kafka, Redis, CI/CD, and distributed system design, with growing involvement in HLD/LLD and cloud-native architecture.

## WORK EXPERIENCE

### Full Stack Engineer

Cognizant, Bengaluru (July 2021 - Current)

- Contributed to application HLD and LLD; participated in architecture reviews to improve scalability and fault tolerance.
- Developed RESTful APIs for a North American healthcare provider, achieving 1ms response time for ~50,000 active users. Reduced API latency by introducing Redis caching, improving throughput by 50%.
- Collaborated with stakeholders to define product requirements and streamline development, testing, and deployment workflows.
- Designed and developed a REST API using OpenAPI (formally swagger) to promote design-first-development.
- Automated processes with SpringBatch jobs which reduced manual effort by up to 97%.
- Designed real-time event-driven architecture; developing producers and consumers using Kafka for low-latency streaming.
- Used Aspect-Oriented-Programming (AOP) to centralise exception handling in large batch applications optimising Elastic Search memory consumption and performance.
- Integrated databases such as SQL Server and PostgreSQL in Java applications.
- Enhanced a full stack SpringBoot & Angular web application, for client's claim management system.
- Implemented CI/CD pipelines via Azure DevOps, improving deployment efficiency.

### Full Stack Engineer

Nlyze, Remote (November 2020 - March 2021)

- Built a cloud-native responsive web application (HTML/CSS/JS), and serverless functions (Node.js on Firebase) to feature real-time analytics.
- Implemented real-time data visualisations that reduced report preparation time for the analytics team by 75%.
- Migrated high-latency components to Firestore (NoSQL), improving read/write latency and reducing network overhead.
- Integrated OAuth-based authentication to streamline user sign-in.

## SKILLS

- Backend: Java, Spring Boot, Spring Batch, Spring MVC
- Frontend: HTML, CSS, Javascript, Angular
- Database: MySQL, PostgreSQL, SQL Server
- Cloud and tools: Azure DevOps, Docker, Kubernetes, Redis, Kafka, OpenAPI
- Architectural: OOP, Design patterns, Microservices, LLD & HLD, Data Structures & Algorithms

## PERSONAL PROJECTS

### Blockchain Simulator

A program that mimics how a blockchain operates.

It showcases: Mining, SHA-256, Proof-Of-Work and consensus using Distributed P2P network.

### OpenAI Data Structure Predictor

This app recommends suitable data structures applicable for any given situation. Built using OpenAI API.

It showcases: LLM, RAG & Generative AI based application (GenAI), APIs.

### TweetApp

A twitter clone, featuring posts and user authentication.

It showcases: Full stack development, SpringBoot, React, APIGateway, EurekaServer, SonarQube.

## PUBLICATIONS

### Integrating OpenAI

Using OpenAI's text completion API to build a GenAI application.

### Sports Image Classification

A framework for classifying sports images based on the environment and related surroundings.

## EDUCATION

Bachelor's Of Technology in Computer Science

Graphic Era University, Dehradun (2016 - 2021)