

# Chaitanya Bhardwaj

Software Engineer - Java

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## WORK EXPERIENCE

### Full Stack Engineer

*Cognizant, Bangalore (July 2021 - Current)*

- Developed REST APIs for a healthcare provider in North America; in-use by approx 60,000 users.
- Participated in architectural meetings and provided key insights on the application low level design.
- Wrote, reviewed and delivered project, end-to-end on microservices for data validation using SpringBoot.
- Developed real-time event producing and consuming systems using Kafka for low-latency data streaming.
- Automated multiple processes, with SpringBatch services, which reduced manual effort by up to 97%.
- Created a batch application to extract high volume data from SQL server and formatted it into excel files.
- Used Aspect-Oriented-Programming (AOP) to centralise exception handling in large batch applications.
- Developed a full stack SpringBoot & Angular web application, for client's inventory management.
- Analysed and discussed system design of the application, and ensured best practises by following agile methodology.
- Identifying product requirements for software implementation, unit testing, configuring metrics, and dashboards.

### Full Stack Engineer

*Nlyze, Remote (November 2020 - March 2021)*

- Delivered a web app featuring analytical dashboard using Javascript and with the help of open-source libraries.
- Provided real-time data visualisation and modification, resulting in a 75% reduction in report preparation time for data analytics team.
- Optimised CRUD operations by migrating to Firestore (NoSQL) from a relational database.

## SKILLS

- Backend: Java, Spring Framework, Microservices
- Frontend: HTML, CSS, Javascript, Angular
- Database: MySQL, PL/SQL
- Cloud and tools: Azure DevOps, Docker, Kubernetes, Kafka
- Architecture and system design: Object oriented programming, Design patterns, Data Structures & Algorithms

## TECHNICAL PROJECTS (PERSONAL)

### HTTP Web Server

Implementation of an HTTP web server, in Java. This application can host websites, static content, scripts, etc. It showcases: Sockets, Multi-threading, parsing HTTP request and building HTTP response.

### 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.

## RESEARCH & PUBLICATIONS

### Sports Image Classification

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

Built on top of the Yolo darknet library which uses computer vision to detect objects. 1000x faster than R-CNN and 100x faster than Fast R-CNN.

It showcases: Inception V3 and Neural Networks

## LINKS

LinkedIn: <https://www.linkedin.com/in/chaitanya-bhardwaj-64657a132/>

Portfolio: <https://chaitanyabhardwaj.github.io/>

GitHub: <https://github.com/chaitanyabhardwaj>

## EDUCATION

B. Tech in Computer Science

Graphic Era University, Dehradun (2016 - 2021)