CHINMAY GUPTA

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# EDUCATION

**Birla Institute of Technology and Science Pilani (BITS PILANI)** Pilani, India Bachelor of Engineering (Hons.)

# TECHNICAL SKILLS

* **Languages**: Java, Python, C++, JavaScript
* **Tools/Libraries:** Spring Boot, QuantConnect, AWS, Kafka, MongoDB, TensorFlow, Docker, Redis
* **Electives:** Data Structures and Algorithms, Object-Oriented Programming, System Design, Neural Networks

# EXPERIENCE

## Software Development Engineer

Larsen and Toubro Infotech (Jul 2022 - Present) Bengaluru, India

* Played an integral role in the development of a portfolio optimization portal which specifies and optimizes the type and quantity of assets in a client portfolio using various classical and quantum algorithms.
* Designed and developed the pipeline for a microservices-based Vehicle Routing solution which optimizes the total cost incurred by the client to provide the best possible route for delivery of goods in multiple delivery locations.

## Software Development Intern

Z1 Media (Sept 2021 - Oct 2021) Gurugram, India

* Built a video player using VideoJS used for running advertisements on client webpages.
* Deployed advertisements using Google IMA SDK in the different types of layouts and manners.

## Business Development Intern

Airmeet (Oct 2020 - Nov 2020) Bengaluru, India

* Oversaw revenue management analytic functions and developed competitive pricing strategies.
* Part of International Growth team and held responsibility of expanding the organization in Europe.

# PROJECTS

## OptimQ – Portfolio Optimizer

* Integrated QuantConnect’s Lean trading engine to execute the trades requested by the optimizer and rebalancer.
* Implemented caching for benchmarks and ticker data.
* Developed the structure of the results after each optimization and rebalancing of a portfolio.
* Created several APIs for retrieving data and aggregating metrics for the dashboard analytics page.
* Tech Stack: Python, QuantConnect Lean CLI, Docker, MongoDB, Fast API.

## RouteQ – Vehicle Router

* Developed the backbone pipeline for routing jobs to the relevant solver algorithm for each routing request.
* Created Dashboard for the portal and created Restful APIs for fetching the different metrics.
* Tech Stack: Java, Spring Boot, MongoDB, Kafka and REST APIs.

## Generative AI

* Developed a machine learning model to generate unique artificial images and videos.
* The model is made using Convolutional Neural Networks and is inspired by GAN and VAE architectures.
* Tech Stack: Python, TensorFlow, Pytorch, Numpy, Matplotlib

## Bingo Game Development

* Built Indian Bingo game implementing Multithreading in Java**,** inspired by Producer-Consumer Problem.
* Implemented Player and Moderator classes and used synchronization to handle the resource availability.