

# Prajjwal Mehta

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## EDUCATION

**Thapar Institute of Engineering and Technology**

Patiala, India | 2024 |

B.E. IN COMPUTER SCIENCE | CGPA: 9.44/10.0

## WORK EXPERIENCE

**JP MORGAN CHASE | SDE-1**

Bengaluru | July 2024 - Present

- **Event-Driven Automation:** Developed the "Auto Task Creation" workflow using a **Kafka Pub-Sub** model, implementing conditional logic to decouple task generation from the main service.
- **Quality Engineering:** Pioneered the team's first implementation of **Consumer-Driven Bidirectional Contract Testing**, preventing integration drift between microservices.
- **Observability & Optimization:** Integrated **Dynatrace** to monitor service health and executed infrastructure **Rightsizing** initiatives, reducing cloud resource costs by approx. 15%.
- **Test Coverage:** Enhanced stability by writing robust test suites using **SmartSpec** and successfully executed spring boot upgrades

**JP MORGAN & CHASE | SUMMER ANALYST INTERN**

Bengaluru | Jun 2023 - July 2023

- **High-Performance API:** Engineered a Data Fetching Service using **GraphQL** and **Directed Acyclic Graphs (DAGs)**.
- **98% Latency Reduction:** Implemented node-level caching strategies, slashing complex query execution time from 900ms to 10ms.
- **Tooling:** Built an internal debugging dashboard that aggregates data from internal/external DBs, reducing root-cause analysis time for the team.

**ENTREPRENEURSHIP DEVELOPMENT CELL | TECH LEAD DESIGN HEAD**

Thapar University | 2022 - 2024

- Led the digital presence for "Pitchverse," managing web assets and reducing page load speeds through image optimization.
- Managed a team of 5 designers/developers to deliver marketing assets under strict deadlines.

## KEY PROJECTS

**E-COMMERCE BACKEND & PAYMENTS** 

MERN STACK, STRIPE API, REDIS

- Designed a scalable e-commerce architecture supporting secure payments via Stripe integration.
- Implemented **JWT Authentication** and role-based access control (Admin vs User) to secure API endpoints.
- **Database Design:** Normalized MongoDB schemas to handle inventory and order history efficiently.

**COVID-19 X-RAY PIPELINE** 

PYTHON, PYTORCH, RESNET-18

- Built an automated image classification pipeline achieving **XX% accuracy** on test data.
- Processed and augmented a dataset of [Number] images to prevent overfitting and improve model generalization.

## TECHNICAL SKILLS

**Languages:** Java, C++, JavaScript (ES6+), Python, SQL

**Frameworks:** Spring Boot, React.js, Node.js, Express, NextJS, GraphQL

**Infrastructure:** Git, Docker, AWS (Basics), MongoDB, PostgreSQL

**Concepts:** Data Structures, Algorithms, OOP, REST APIs, System Design Basics