

# Geet Patel

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## Education

### Rutgers University

New Brunswick, NJ

#### Master of Science in Computer Science

May 2024

**Coursework:** Introduction to Artificial Intelligence, Mathematical Foundations of Data Science, Machine Learning, Natural Language Processing, Design of Internet Services

### Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT)

Gandhinagar, India

#### Bachelor of Technology in Information and Communication Technology

May 2020

**Coursework:** Data Structures, Design and Analysis of Algorithms, Database Management Systems, Probability Statistics and Information Theory, GPU Programming, Operating Systems

## Experience

### Find Commerce

New York

#### Software Dev Intern

May 2023 – Aug 2023

- Inspected the existing product design ideas with business team for a backend solution with common e-commerce features, leading to better organization and prioritization of tasks.
- Developed user login, carts, orders and payments management backend **Java**, **Spring**, **MySQL**, with **AWS SNS** and **SES** for user notification and **Stripe** for order payments.
- Built production infrastructure of the Java artifact using **AWS Elastic Beanstalk** and **AWS RDS**.

### Rapidbox

Bangalore, India

#### Software Engineer II

Nov 2021 – Jul 2022

- Analyzed payment API structure to investigate **payment frauds**, integrated **webhooks** processing system along with revamped APIs to bring the fraud rate from monthly **~50** cases to a complete **0**.
- Developed middleware **microservices**, allowing effortless integration of marketplace platforms with the in-house inventory and order management system to **2x** the daily order volume.

#### Software Engineer

Jun 2020 – Nov 2021

- Implemented an event-driven asynchronous data transfer pipeline using **Kafka** and **Logback** feeding into a **PostgreSQL** database to deliver marketing analytics, scaling to daily **1M+** user actions.
- Set up views, indexes and cronjobs in the **PostgreSQL** database to simplify complex query scripts, reduced repetitive labor work performed by developers from weekly **~3 hours** to **~30 minutes**.

#### Software Dev Intern

Jan 2020 – Jun 2020

- Collaborated to develop an end-to-end order and inventory management system using **Java**, **Spring** and **MySQL** to track items from stock purchase to order delivery, returns and exchanges.

## Projects

### Process Containers

**Linux, Bash, Scripting**

Developed a set of scripts that when ran into its order, will fetch Alpine Linux distro, and utilize that to run contained processes. Set includes filesystem, network and memory allocation configuration scripts.

### Fast Trajectory Replanning using A\* Search

**Python, Jupyter**

Simulated and solved a realistic scenario of a robot navigating through an unknown environment between its current location and target, utilizing Repeated Forward A\*, a variant of the A\* Search.

### Inverse Kinematics and Machine Learning for Humanoid Robotics

**Python, Numpy, OpenCV**

Developed a cost-effective and computationally efficient motion tracking using classical image processing methods, which can be utilized for inverse kinematics models and LSTM training.

### Design and Implementation of a Music Streaming Service Database

**SQL**

Created a database schema to manage artifacts for a music streaming platform like users, songs, albums, artists. Developed provisions of auto-curated playlists such as user's most frequent, country's top 50, with all logic contained in SQL stored procedures, and materialized views.

## Technical Skills

### Programming Languages

Java, Python, Go, SQL, JavaScript, Shell Scripting

### Frameworks/Libraries

Spring, Hibernate, Node, Numpy, Matplotlib, OpenCV, PyTorch, Gorm

### Databases

MySQL, PostgreSQL, Kafka, Redis, Elasticsearch

### Tools

Git, Docker, Linux, Visual Studio Code, IntelliJ, PyCharm, Postman, Jupyter, AWS, Golang