

Geet Patel

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Education

Rutgers University

Master of Science in Computer Science

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

New Brunswick, NJ

May 2024

Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT)

Bachelor of Technology in Information and Communication Technology

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

Gandhinagar, India

May 2020

Experience

Find Commerce

New York

Software Dev Intern

May 2023 – Present

- Inspected the existing product design and consolidated on ideas to design a **backend** solution involving user login, carts, orders, payments and inventory centralization products.
- Developed user login, carts, orders and payments management backend **Java**, **Spring** and **MySQL** from scratch, which handles **>1k users** and **>100 orders** with respective 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, and integrated **webhooks** processing system along with revamped APIs to bring the fraud rate to a complete **zero**.
- Developed middleware **microservices**, allowing effortless integration of **marketplace platforms** with the in-house inventory and order management system to **double** the daily order volume.

Software Engineer

Jun 2020 – Nov 2021

- Implemented an event-based asynchronous data transfer pipeline using **Kafka** and **Logback** feeding into a **PostgreSQL** database for marketing analytics scaling to **>1M** daily user actions.
- Set up views, indexes and cronjobs in the database that simplified complex queries and reduced repetitive labor work performed by developers to **<10%** of before.

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 & exchanges.

Projects

Fast Trajectory Replanning using A* Search. 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. Developed a cost-effective and computationally efficient motion tracking using image processing, which can be utilized for inverse kinematics models and LSTM training.

Design and Implementation of Music Streaming Database. 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 views.

Technical Skills

Programming Languages	Java, Python, SQL, JavaScript, Shell Scripting
Frameworks/Libraries	Spring, Hibernate, Node, Express, Numpy, Matplotlib, OpenCV, PyTorch
Databases	MySQL, PostgreSQL, Kafka, Redis, Elasticsearch
Tools	Git, Linux, Visual Studio Code, IntelliJ, PyCharm, Postman, Jupyter, AWS

Additional Information

Sports enthusiast, loves tennis, cricket, volleyball for playing, and then a plethora of Olympic sports and motorsports for watching. Avid movie lover who enjoys anything that tries to capture and challenge human nature and moral dilemmas across themes of science fiction, crime drama and fantasy.