

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

Jan 2020 – 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

- 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

- 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.JS, Numpy, Matplotlib, OpenCV, PyTorch, Gorm

Databases MySQL, PostgreSQL, Kafka, Redis, Elasticsearch

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