GEET PATEL

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EDUCATION

RUTGERS UNIVERSITY, **School of Arts and Sciences**　　　　　　　　　　　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 – 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 into the existing structure to reduce 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 orders and warehouse management system using **Java**, **Spring** and **MySQL** to track items from stock purchase to order delivery, returns & exchanges.

SELECTED PROJECTS

Fast Trajectory Replanning using A* Search. Simulated and solved a realistic scenario of 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 CAPABILITIES

Programming Languages	Java, Python, C++, C, 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, Eclipse, IntelliJ, PyCharm, Jupyter, AWS (IAM, Elastic Beanstalk, RDS)

ADDITIONAL INFORMATION

Enjoy sports, tennis, cricket, volleyball for playing, and then a plethora of Olympic sports and motorsports for watching.
Culinary enthusiast who likes experimenting with new recipes and ingredients.