Darsh Patel

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EDUCATION

Stevens Institute of Technology, Hoboken, New Jersey
Master of Science in Computer Science – Specialization in Machine Learning   *September 2022 - Present*
Relevant Courses: Deep learning, Artificial Intelligence, Datastructure and Algorithms   (Expected: **Dec 2023**)

Sardar Vallabhbhai Patel Institute of Technology, Vasad- Gujarat, India
Bachelor of Engineering in Information Technology   *August 2018 - June 2022*

WORK EXPERIENCE

Software Engineer Intern at FlashTech, Ahmedabad, Gujarat, 12/21-06/22
- Developed a batch script to stop Web app data service component. Developed C# logic to send a gRPC request for retrieving inventories with time delay when rapidly scrolling through blotter orders.
- Reproduced and resolved a bug caused in the dropdown list UI when no broker was selected, also wrote an automated Silk4Net test for the functionality built. Performed rigorous manual and automated testing for some workflows for Client Java removal project.
- Wrote a backend script in Java to recover a JMS consumer, after encountering JMS exception. Added a broker parameter to support the implementation of expire level support for incoming dealer inventories.
- Worked on various backpatches for allowing merging of fulfilled generic orders with different system parameter settings. Perform manual and automation testing using Docker image for the patch.

Software Development Intern at NMR Technologies, Gujarat, 05/21 – 10/21
- Designed various models for storing different user's data in SQLite database and also created various views, binding them with the URLs to provide UI accessibility to public.
- Redesigned an old inventory management system using Spring Boot MVC Architecture, Hibernate, Microservices and AWS.
- Implemented business logic in the service and data-access object layer, and designed POJO classes to exploit object relational mapping with the MySQL database on S3 bucket. Executed Junit testing and resolved production bugs and defects.

Software Engineering Intern at BoTree Technologies, Gujarat, 07/20 – 01/21
- Designed backend scripts, implementing models and serializers in Python and Django REST Framework to support new transportation solutions. Also, wrote unit tests in Django and tested the RESTful APIs through Postman.
- Performed requirement analysis, implemented backend logic and views for the URLs served through the API endpoints from frontend.
- Used pgAdmin and PostgreSQL for database support. Deployed application on AWS EC2 instance, utilizing S3, Lambda and load balancing.

TECHINCAL SKILLS

Programming Languages: *Python, Java, SQL, C++, C, HTML, CSS, JavaScript, JSON, Typescript*
IDE/OS Experience: *Eclipse, Maven, Atom, IntelliJ IDEA, PyCharm, Android Studio, Visual Studio, Windows, Linux, RHEL, UNIX*
Familiar Frameworks: *Django, Spring MVC, Spring Boot, REST, API, Hibernate, Spring JPA, Spring Security, AWS, Bootstrap, React*
Libraries: *Numpy, Matplotlib, Pandas, Pymysql, Keras, TensorFlow, OpenCV, SQLdb, SQLAlchemy*
Databases: *MySQL, PostgreSQL, NoSQL, MongoDB, MSSQL Server, AWS Redshift, MariaDB, AWS RDS*
Functional Skills: *Learn and utilize modern technologies, Agile software development, Fast-paced environment, Developing backend web applications, requirement analysis, AWS Cloud Services, Problem-solving skills*

PROJECTS

SQL Query Application   **Spring 2022**
- Built a RESTful API for executing queries on MySQL, Amazon Redshift and MongoDB databases.
- Built backend script using Flask library and performed database connection through JDBC driver and various python libraries.
- Designed frontend using HTML, CSS and JavaScript, displaying output query set in table format using Pandas leveraging Data Frames.
- Deployed the application on AWS Cloud using S3, EC2, Cloud Deploy and a HTTP web server for Python.

Patient Care Management System   **Fall 2021**
- Built a RESTful web API using Spring Boot framework, for the management of patients and their associated doctors, creating various services for entering and storing patient and doctor information in the database, booking appointment through a receptionist.
- Implemented various services requiring a filter of data by writing custom queries and classes, extending the JpaRepository class.
- Implemented the backend datastore in MySQL database integrating it with Spring, using Jpa annotations and entity classes.

Early Outbreak Detection and Monitoring of Diseases   **Winter 2020**
- A web application used for the purpose of showing disease outbreaks on a map and related symptoms/ precautions for such diseases.
- Implemented the backend scripts and models in Django Framework.
- Implemented a script using binary search tree and developed UI to determine the resulting disease based on the symptoms inputted.