Ket Patel

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TECHNICAL SKILLS

- **Languages**: Java • Python • PHP • C • C++ • REST-APIs • Apex-Salesforce • JavaScript • Android • HTML • CSS • Aura-based Components-Salesforce • Algorithms • Data Structure
- **Frameworks**: Play with Java • Django-python • React
- **IDEs and Tools**: Eclipse • Visual Studio Code • IntelliJ • PyCharm • Anaconda • Android Studio • Postman • Jupyter Notebook
- **Artificial Intelligence**: Deep Learning with PyTorch • Anaconda • Computer Vision
- **Databases**: MySQL • PostgreSQL • SQLite
- **Operating Systems**: Windows • Linux

EDUCATION

Master of Applied Computer Science **Sep 2021-Present**

Concordia University Montreal, QC

- Cumulative GPA: (3.58/4.30)
- ***Relevant Coursework***: Algorithm Design Techniques, Advanced Database Technology and Applications, Advanced Programming Practices, Computer Vision, Applied Artificial Intelligence, Distributed System Design, Machine-Learning.

Bachelor of Computer Engineering - GTU **2016-2020**

Silver Oak College of Engineering and Technology Gujarat, India

- Cumulative GPA: (9.08/10)

PROFESSIONAL WORK EXPERIENCE

Software Developer (2 Years) **Sep 2019-Sep 2021**

Shrine Software Services Pvt Ltd Gujarat, India

- Worked with an agile team of six on Salesforce (CRM) to handle various services like sales, orders, revenues for different E-commerce as well as medical projects.
- Hands on experience of REST API for payment gateways like Stripe, PayPal along with woo-commerce (a plugin of word press) in Salesforce platform.
- Handling response from third party applications using webhooks and creating relative entries in database using SOQL-SOSL queries of Salesforce.
- Created triggers and scheduled batches to handle millions of records in Salesforce to provide 100% accuracy in profit and loss related features of the application.
- Designed front end pages using VisualForce and Aura-based Components of salesforce along with creating built-in and custom fields by applying various formula and validation rules in salesforce-admin side.

PROJECTS

Plagiarism Detection using Python (Python, LCS Algorithm, Edit Distance Algorithm)

- Detecting whether provided files are code files or text files using regular expressions.
- Level 0-1 plagiarism detection between two files using edit-distance and LCS strategy.
- Outcome depends on the cost required to convert one file into another using edit-distance.

Face-Mask Detection using DL (Anaconda, Python, PyTorch, Jupyter, CNN)

- Designed and trained CNN model using PyTorch's nn.Module library for an image dataset.
- Model can predict following classes: Cloth, N95, Surgical, No Mask and Mask worn incorrectly.

Quizopedia (Django-Python, SQLite)

- Dynamic Web-App for a Quiz which randomly picks questions from SQLite database each time.
- Maintain History of all previous attempts by a User to track the progress on subject.

Deep-Learning with PyTorch (Anaconda, Python, Jupyter, CNN)

- Designed CNN model for KMINST dataset using activation functions like Sigmoid and ReLU.
- Written Softmax and Cross-Entropy-Loss functions to calculate loss and for back-propagation.

Reactive Gitterific (Play Framework with JAVA, REST-APIs)

- Web-App to fetch and render data using REST-APIs from Github regarding Repositories, Users and Topics based on a keyword along with parallel processing feature of Play for each request.
- Session management for searched topics to reduce the load on server for the same requests.
- Utilization of advanced topics like CompletableFuture and Actors of Play with MVC structure.
- Implementation of WebSocket to broadcast up-to-date search result on every 10 seconds.

Feedback App (React) **LIVE**

- Created a Feedback Portal using React on which users can rate the service and write reviews.
- Feature to edit reviews along with average and count on total number of reviews is provided.

Provenance Query using PostgreSQL Extensibility (PostgreSQL, plpgsql)

- Written PostgreSQL functions to show "why" provenance for given SELECT Queries.
- Extended normal queries by adding above written functions dynamically using pure "plpgsql".

WebApp with DockerSwarm and Docker (Docker/DockerSwarm, Linux)

- Deployed a web app on multiple system nodes using DockerSwarm and Docker to achieve the scalability, Fault Tolerance, Load Balancing between nodes and high availability.

City Oversight (Python, Django Framework, Machine Learning API)

- Portal to scan road images by trained model to detect garbage and potholes on the road.
- Citizens can comment and suggest an area or street for evaluation to detect garbage/pothole.

GST Billing System (JAVA, MYSQL, Servlet, JSP)

- Web-App for retailers and wholesalers to calculate GST(Good Service Tax) on both purchased and sold products every month and year.(Implemented in Gujarat Industrial Hackathon 2019)
- Includes services such as stock management, report generation and loss-profit ratio.

Parking Slot Booking System (PHP, MYSQL, MVC)

- Portal for booking and management of parking slots for 4-wheelers in apartments or buildings.
- Maintains a parking history for all the past booking done by particular user.

MISCELLANEOUS AND EXTRACURRICULAR

- "Python for Machine Learning" – Workshop organized by GSA Concordia in October 2021.
- "Python for Everybody" by Charles Severance from University of Michigan on Coursera.