Jay Patel . Jarvis Consulting

Hello, I'm Jay Patel, a Master's student in Big Data Analytics with over 2 years of web development experience. I've honed my skills in Python, R, SQL, and various frameworks like Angular and Spring. As a Senior Web Developer at R P Softech, I crafted a WhatsApp Bot for customer engagement and managed bullion trading apps. I excel in problem-solving, algorithms, and effective teamwork. My experience at Hello Skate Mobility involved upgrading an Android app and developing an admin panel. Passionate about innovating through technology, I am seeking a role that allows me to contribute my technical expertise and creativity. My qualifications include Oracle certifications and successful project leadership in hackathons. I am eager to bring my skills to a dynamic role in web development or data engineering.

Skills

Proficient: Javascript-Frameworks(Angular/Node), Firebase, RDBMS/SQL, Python, Docker

Competent: JAVA, Spring MVC, PostgreSQL, Machine Learning, GCP

Familiar: Android, PHP, React, C/C++, Hadoop

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_JayPatel

Linux Cluster Resource Monitoring App [GitHub]: This project leverages a CentOS-based virtual machine on Google Cloud Platform (GCP) to orchestrate a VNC and Angular dashboard firewall, enabling real-time tracking of minute-by-minute memory changes. Deployed with Docker, it efficiently manages PostgreSQL, Node.js, and Angular, while Bash scripts handle table initialization and data parsing from tools like vmsat and lscpu. Crontab ensures regular data insertion. With a focus on RDBMS (PostgreSQL), CentOS, Bash, and Docker, this initiative integrates diverse technologies for seamless data tracking and visualization, enhancing system management through robust analytics.

Highlighted Projects

Facial Expression Detection [GitHub]: Explore the depth of human emotions through our Facial Expression Recognition project. Implemented in Python, it employs advanced libraries like Keras, sci-kit-learn, and OpenCV. I crafted a convolutional neural network featuring pooling layers and ReLU activation functions, unveiling a sophisticated approach to decoding facial expressions.

Market Basket Analysis - Instacart [GitHub]: Analyzed over 3 million transactions from the Instacart dataset, employing market basket analysis for insights into customer buying habits. Utilized association rule mining algorithms, including Apriori and FP-growth, to reveal significant trends and identify commonly purchased product combinations.

My Portfolio [GitHub]: Revamp your digital presence with my portfolio website, showcasing proficiency in Full Stack Development, AI, and more. Crafted using HTML/CSS and powered by JavaScript, the site navigates seamlessly, reflecting my commitment to excellence. Dive into my journey, skills, and diverse projects. Explore testimonials and connect for collaborative opportunities. Elevate your browsing experience with a clean, responsive design. Browse my tech journey, witness my skills, and let's connect!

Professional Experiences

Software Developer, Jarvis (Jan 2024-present): As a Software Developer at Jarvis Consulting Group, spearheaded the development of the 'Linux Cluster Resource Monitoring App.' Orchestrated a CentOS-based virtual machine on Google Cloud Platform, implementing a VNC and Angular dashboard firewall for real-time memory tracking. Employed Docker to streamline PostgreSQL, Node.js, and Angular deployment, optimizing system performance. Executed Bash scripts for table initialization and data parsing, ensuring efficient utilization of RDBMS (PostgreSQL). Implemented crontab for scheduled data insertion, harmonizing diverse technologies for seamless data tracking and visualization. Jarvis's role significantly contributed to enhancing system management through robust analytics.

Senior Web Developer, R P softech (Sep 2020 - December 2021): I spearheaded the development of a WhatsApp Bot, enhancing customer engagement by 30% through bulk messaging. Utilizing Electron and Angular, I crafted a streamlined, user-friendly interface. The management of the database was executed seamlessly with Node.js. Additionally, I engineered two bullion trading apps, implementing a hybrid database with both Sequel and MongoDB. The integration of a web socket between Node and Angular facilitated rapid rate updates. Furthermore, I was involved in the end-to-end

development of Accounting software, incorporating Angular for the frontend, Node.js for API interaction, and ensuring a keyboard-driven, auto-backed-up system for day-to-day transaction tracking.

Web Developer & Head of Interns, Hello Skate Mobility (Sep 2020 - December 2021): Engineered an advanced admin panel employing Spring and Firebase, empowering administrators with real-time oversight of scooter positions and statuses. Implemented cutting-edge features, including geolocation tracking and instant alerts for status changes. Leveraged Firebase's robust database and messaging services to craft a scalable and efficient solution. Additionally, elevated an existing native Android app to a hybrid version using Angular and Firebase, optimizing performance by an impressive 30% through Cordova for native functionality integration.

Education

Trent University (Jan 2022- May 2023), Master's of Big Data Analytics, Applied Modelling and Quantitative Methods - GPA: 3.8/4.0

Gujarat Technological University (2017-2021), Bachelor of Engineering, Information Technology - Facilitated an Android workshop - Represented the college in a national-level coding competition.

Miscellaneous

- Oracle Certified Expert, Java EE 6 Web Component Developer
- Oracle Certified Professional, Java SE 6 Programmer
- Achieved 1st Place in the Hackathon hosted by Jarvis Consulting Group. And Teranet Inc.
- Compatative Coding
- Tactical first-person shooter games