Manan Joshi

Python Full Stack Developer
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SUMMARY

- 3+ years of experience in Analysis, Design, Development, Implementation, and Testing of various stand-alone and client-server architecture-based enterprise application software in Python.
- Well-Versed in developing Web Services with Python programming language.
- Proficiency in working with various Python Integrate Development Environments like Visual Studio code, Jupyter Notebook, and PyCharm.
- Capable of implementing Model View Control (MVC) architecture using server-side applications like Django, Flask, and Node.JS for developing web applications.
- Good Knowledge of several Python libraries such as NumPy, Pandas, and CherryPy.
- Proficient in full stack development experience using HTML, CSS, JavaScript, Bootstrap, Ajax, jQuery, Redux, and React. JS.
- Good Knowledge of creating, querying, and maintaining databases with many DBMS like MongoDB and PostgreSQL.
- Capable of bug-tracking tools such as Jira.

EDUCATION

Master in Computer Science
California State University Long Beach, Long Beach, California

Bachelor in Computer Engineering
Gujarat Technological University, Gujarat, India

SKILLS

Methodology: SDLC, Agile, Waterfall
Programming Languages: Python, SQL, PL/SQL
IDES: Visual Studio Code, Jupyter Notebook, PyCharm
Frameworks: Django, Flask, Node.JS, Express.JS, React.JS
Python Libraries: NumPy, Pandas, Web2py, CherryPy, Requests
Web Technologies: HTML, CSS, JavaScript, Ajax, XML, JSON, jQuery, Bootstrap, Restful API, Redux
Database: MongoDB, Firebase, PostgreSQL, MySQL
Version Control/Other Tools: GitHub, Git, Jira
Operating Systems: Windows, Linux

EXPERIENCE

Hartford Financial Services Group, CA | Aug 2022 - Current
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- Implement **Agile** Methodology for building an internal application.
- Working with several **IDEs** such as **Jupyter Notebook** and **Visual Studio Code**.
- Architect and develop **Python** and **Django** for the backend development and front-end application using **React**, **Redux**, and **database**.
- Involving web application development using **Python** and **Node.js**, **jQuery** while using **HTML**, **CSS**, **JavaScript**, **Ajax**, **XML**, **JSON**, **jQuery**, and **Bootstrap** for server-side rendered applications.
- Develop reusable components using **React.JS** and redux to maintain the state and actions of the functions.
- Work with the Product Owner to load requirements into **Jira** and decide on the estimation of each task and divide them accordingly.
- Manage data migrations, wrote queries for and maintained a **MongoDB** and **PostgreSQL** database.

BrainByte Infotech, India | April 2019 - July 2021
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- Worked with Requirements Specification, Design documents, and writing Test cases **Waterfall** methodology.
- Designed and developed web applications using **Flask** web framework for **Python** models or scripts.
- Worked on **Node.js** Middleware framework like **Express.js**, essentially developed microservices and serve them through middleware.
- Used **Restful API** for information extraction.
- Developed Web-based Applications using **Python**, **CSS**, **HTML**, **JavaScript**, **jQuery**, **React**.**JS**, and **Bootstrap**.
- Used SQL technologies like **MongoDB** and relational databases like **SQLite**, **Firebase**, **PostgreSQL**, and **MySQL** databases.
- Configured and implemented the overall **Jira** technical strategy for ticketing.
- Developed version control tools such as **Git** and **GitHub**.

PROJECTS

EMOTION-BASED MUSIC PLAYER | Python, OpenCV, NumPy, MediaPipe | Oct 2022

- Built a machine learning model which can recommend songs to the user by recognizing the facial expressions and gestures of the user using OpenCV, MediaPipe and NumPy.
- This model obtained the accuracy of 86%.
- The emotion-based music player application utilizes advanced machine learning algorithms to continuously learn and adapt to the user's changing emotional states, providing increasingly accurate and personalized song recommendations over time.

SIMPLE SCALAR SIMULATION | C++, SimpleScalar | Dec 2021

- Created a Simulation of SimspleScalar Benchmarks i.e., Branch Prediction, Cache Optimization, Anagram, GO, Perl, etc.
- The simulation results were analyzed to gain insights into the performance characteristics of different benchmark programs, helping identify areas for improvement and optimization in the design of advanced computer architectures.
- Used C++ language in Simple Scalar software for the Advanced Computer Architecture.

OFFERS-ON-THE-GO | Python, Machine Learning, Geofencing, Android | Mar 2021

- Developed an android application which recommends offers to users according to their shopping habits and their location.
- The Offers-On-The-Go application leverages the power of geofencing, enabling users to receive real-time notifications about exclusive offers and deals when they enter predefined geographical boundaries, such as shopping malls or specific store locations, creating a seamless and personalized shopping experience.
- This application helped in boosting local sales by 40%.

HOSPITAL MANAGEMENT WEBSITE | React, JavaScript, HTML, CSS | May 2020

- Built a website using AWS Amplify from scratch for a hospital showing various features like information about hospital, appointments, treatments, availability, etc.
- The Hospital Management Website incorporated a user-friendly interface and intuitive navigation, allowing patients to easily access vital information, book appointments, and view their medical history, leading to improved communication between patients and healthcare providers.

NATURE WARRIORS | TensorFlow, MySQL, Android | Aug 2019

- Managed a group of 4, utilizing **Android, SQL**, and **TensorFlow** to create an application for environmental cleaning.
- The Nature Warriors application employed TensorFlow's image recognition capabilities to identify and classify various types of litter, empowering users to actively participate in cleaning efforts and promoting environmental awareness through gamified challenges and rewards.
- As a result, littering and mismanaged rubbish has been diminished by **40%** in the neighborhood.

GTU BUDDY | JavaScript, HTML, CSS, Java | July 2018

- Constructed an upgraded version of website www.gtuinfo.in which lacked vital functionality for the benefit of students at Gujarat Technological University with **JavaScript, HTML, CSS**, and **Java**.
- Implemented a responsive design for the website, ensuring optimal user experience across different devices and screen sizes, leading to increased accessibility and engagement among the student community.
- The website's content and user interface were updated which boosted website traffic by 55%.

FACE DETECTION VOTING SYSTEM | JavaScript, OpenCV, MySQL | Dec 2017

- Designed an authentication system for online voters was developed, using face detection and a database to validate pre-saved photographs using **SQL, OpenCV, TensorFlow, Kera** and **JAX** which can decrease election fraud by **60%**.
- Integrated real-time monitoring and logging features into the face detection voting system, providing administrators with a comprehensive overview of voter activity, ensuring transparency and accountability throughout the electoral process.

TRAINING & CERTIFICATIONS

Machine Learning Basics (Coursera) Sep 2020 🔗
Crash Course on Python (Coursera) July 2020 🔗