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OBJECTIVE:

Seeking a responsible position in an organisation, which gives me a chance to improve knowledge, enhance my skills and enable me to strive towards the overall development of the organisation

HIGHLIGHTS:

- **Experience in application development using C, C++, JAVA, Python.**
- Experience in application development in C++, Java, Python using Procedural as well Object-Oriented manner.
- **Experience in the domain of Linux System Programming using C.**
- **Experience in Low level programming like Kernel Modules and Device Drivers.**
- Experience in Algorithm designing.
- Experience in writing Automation scripts using Python.
- Experience in Mobile Application development in Angular-Ionic.
- Experience in Client-side Web development using Angular.
- Experience in Designing Machine Learning applications.
- Experience in Server-side web development using Java, Python, NodeJS.
- Sound knowledge of operating systems internals.
- Good analytical and problem-solving skills.
- Experienced use of modern source code control (Git).
- Execute quality modules with better performance.

TECHNICAL SKILLS:

- Procedural language : C Programming.
- Object Oriented Programming : C++ Programming, Python
- Virtual Machine based Programming : Java Programming, Python
- Scripting language : JavaScript

- Web Technologies : HTML/HTML5, CSS2/CSS3, JavaScript
- IDE & Tools : Visual Studio Code
- Version Control : GIT
- Database : MySQL, NoSQL
- Operating System : Windows NT, Linux Distributions, UNIX SYS V4
- JavaScript Libraries : Angular JS, Bootstrap
- Tools & Technologies : Angular-CLI
- Web Services : GitHub Pages, Firebase, Netlify
- Python Libraries : NumPy, SciPy, Scikit-Learn, TensorFlow, Pandas, OpenCV
- JavaScript Libraries : Three.js, Leaflet JS

DOMAIN KNOWLEDGE ABOUT SYSTEM PROGRAMMING:

- Good analytical and problem-solving skills based on File Subsystem.

- Good analytical and problem-solving skills based on Process Subsystem.
- Good analytical and problem-solving skills based on Memory management policies of Operating systems.
- Knowledge of all kinds of system calls and its corresponding commands.
- Knowledge of all kinds of data structures that can be used by the kernel of an operating system.
- Knowledge of all kinds of algorithms of UNIX operating systems which get executed when we call the system calls.
- Knowledge of multithreaded system programming application development using pthread library.
- Knowledge of static and dynamic library development on Linux platform.
- Knowledge of Interprocess Communication using IPC SYS V4 techniques.
- Knowledge of writing Kernel Modules and Device driver applications.
- Knowledge of automating the software building procedure using Makefiles.

TECHNICAL PROJECTS:

- Project Name : **Character Device Driver**
- Technology : **Linux System Programming using C**
- Description :
 1. This project is used to create a working model of character device drive on the Linux platform.
 2. We implement a complete driver model which implements all functionalities to operate the device.
 3. We implement the low-level input output functionality for the device.
 4. To check the functionality of the device driver we create a client application using C programming.

- Project Name : **Duplicate file removal**
- Technology : **Linux System Programming using C**
- Description :
 1. This project is used to travel the complete file system and remove all the duplicate files from it.
 2. To check whether files are identical or not we use checksum of that file.
 3. If the checksum of files are identical then we delete the files.
 4. To implement this we use a low level system programming approach.

- Project Name : **Data Structures library using Shared object**
- Technology : **Linux System Programming using C**
- Description :
 1. This project is used to implement all functionalities of data structures.
 2. We implement the functionality for Linked list, stack, queue and tree.
 3. To provide the functionality for all the running applications we implement this project as a
 4. dynamic link library using shared objects.

5. Any application can link this library and access the functionality.

- Project Name : **Customized Virtual File System**
- Technology : **C/C++ Programming**
- Description :
 1. This project provides all functionality to the user which is the same as the Linux File system.
 2. It provides necessary commands; system calls and implementations of the file system through a customized shell.
 3. In this project we implement all necessary data structures of file systems like Incore Inode Table, File Table, UAREA, User File Descriptor table.
 4. Using this project, we can use every system level functionality of the Linux operating system on any other operating system platform.
 5. We provide our own customized shell to interact with the customized database management system.

- Project Name : **Generalised Data Structures Library**
- Technology : **C++ Programming**
- Description :
 1. This project is considered as a library which contains generic implementations of all major types of data structure.
 2. We provide the readymade implementations of all fundamental operations as well as advanced operations on linear, nonlinear data strutters in an object-oriented way.
 3. We provide the generic way of implementation so we can use the functionality for any type of data types.
 4. All the object-oriented design policies are used in this project.

- Project Name : **Chat messenger with log facility**
- Technology : **Java Programming**
- Description :
 1. This project provides the chatting facility for pear-to-peer communication.
 2. We use java socket programming to perform text-based chatting.
 3. We also maintain the log which contains all the chatting details in periodic fashion.
 4. This application is platform & architecture independent.

- Project Name : **File Packer Unpacker with encryption**
- Technology : **Java Programming**
- Description :
 1. This project provides the facility of packing and unpacking the regular files.
 2. In case of packing activity all the data of multiple regular files gets stored in single file with all related metadata.

3. In case of unpacking activity, the data from the packed file gets extracted in the separate file with all necessary details.
4. To maintain the security of the data we provide encryption and decryption techniques.
5. We provide Graphical user interface to interact with the application.

- Project Name : **Customised DBMS**
- Technology : **Java Programming**
- Description :
 1. This project is used to demonstrate the internal working of Database management System.
 2. In this project we handle input in SQL format.
 3. To maintain the data of our database we use the concept of collections from java.
 4. This project handles all the operations which are performed by the DBMS.

- Project Name : **Periodic Process Logger with Auto Scheduled Log Report Facility**
- Technology : **Python**
- Description :
 1. This application is developed in Python.
 2. This project automates process log activity.
 3. In this project we create log file with the current time and store information about all running processes as its name, PID, memory usage, thread count number of child process.
 4. Our automation script executes periodically depends on the time specified by the user using scheduler of python.
 5. After periodic execution it sends the log file to the specified email address.

- Project Name : **Angular Portfolio Project**
- Technology : **Angular, Bootstrap**
- Description :
 1. The Angular Bootstrap Portfolio Project is a showcase of my skills and expertise in web development using Angular and Bootstrap.
 2. This project serves as a testament to my proficiency in front-end web development and demonstrates my ability to create responsive and visually appealing websites.

TECHNICAL HIGHLIGHTS:

- Strong coding ability both in producing clean and efficient code as well as debugging and
- Contributing and taking part software and architectural development activities
- Developing well-designed, efficient, and testable code
- Experience in writing Web Automation, File system Automation, Process Automation scripts

- Sound knowledge of multiple algorithms used for Machine Learning from various libraries
- Knowledge of Front-end development using Angular 7
- Expertise in web deployment using GitHub Pages, Firebase, Netlify
- Knowledge of Unit testing of Angular application.
- Knowledge of Front-end development using HTML, CSS, Bootstrap, Material Design.
- Knowledge of server-side development using NodeJS.
- Knowledge of NoSQL database as MongoDB.

MACHINE LEARNING CASE STUDIES:

- Iris Species classification using Decision tree algorithm
- Ensemble Machine Learning application with heterogeneous algorithm technique
- Iris Species classification using K Nearest Neighbour algorithm
- Breast Cancer Detection using Random Forest algorithm
- Play predictor application using Linear Regression
- Head Brain size predictor using Linear Regression
- Height Weight prediction using algorithm
- Titanic Survival predictor using Logistic regression algorithm
- Diabetes detector using Linear Regression
- Wine type classifier using K Nearest Neighbour

WEB LINKS: Digital Portfolio and Coding Applications

- **Git Repository** : <https://github.com/patildevendra-0>
- **Projects Repository** : <https://github.com/patildevendra-0/PROJECTS>
- **Website** : [Devendra-Portfolio](#)

EDUCATIONAL QUALIFICATION:

| Standard | Institute | Board / University | Percentage |
|------------|------------------------------|--|------------|
| BBM | School of management studies | Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. | 9.56 CGPA |

Personal Information:

- Date of Birth: 15-06-2001
- Father's Name: Manesh Bhaskar Patil
- Marital Status: Unmarried
- Nationality: Indian

The above-mentioned information is authentic to the best of my knowledge.

DEVENDRA MANESH PATIL