Premnath Palanichamy

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28/05/2002 github.com/creapremnath

Motivated Python Developer with one year of experience, proficient in Python and frameworks like FastAPI and Flask. Experienced in managing virtual environments, SDWAN tunnels, and solving networking challenges. Strong problem-solving abilities and a collaborative team player, adept at delivering technical solutions and communicating effectively with customers.

Professional Experience

09/2023 – present
Quehive Technologies, Aranthangi

Associate Trainee

- Developed a console proxy server for VM consoles using FastAPI and Python.
- Built a tools management portal using FastAPI and PostgreSQL with ORM.
- Worked extensively with SDWAN technologies to establish secure tunnels for various organizations.
- Gained experience in Single Virtual Box (SVB) environments, working with images such as CUPS, Odoo, and others.
- Managed and administered Linux-based virtual machines, including installation, configuration, and maintenance of various services and applications.
- Collaborated with customers to understand their requirements and deliver tailored solutions.
- Utilized Jira for ticket management, Git for version control, and Postman for API testing and manual UI testing.
- Applied basic networking principles in troubleshooting and configuring network services.

Education

2019 – 2023
Karaikudi

Bachelor of Engineering in Computer Science, *KIT and KIM Technical campus*
Scored **CGPA 8.49** out of 10

2018 – 2019
Thirupathur

HSSC, *APSA matric Hr Sec school- Thirupathur*
Bio-Maths, Scored **72.6%** marks

2016 – 2017
Thirupathur

SSLC, *Chirsthuraja Matriculation Hr Sec School*
Scored **89%** Marks

Skills

Programming — Python, SQL(Postgresql and MySQL) • **Framework & Tools** — FastAPI, Flask, Postman , Jira and Confluence • **Operating System** — Linux, Windows • **Cloud & Virtualization** — AWS and Single Virtual Box(SVB) • **Version Control** — GitHub • **Networking** — SDWAN, Basic Networking • **Techniques** — ORM Library,OOPS in Python

Projects

08/2024 – present

API for Qtools Management, *Quehive Technologies*
Languages and Technologies Used: **Python,FastAPI,Postgresql, SQL Alchemy, HTML,CSS**

- **Developed** a tools, tasks, and project management system for organizations to streamline operations.
- **Implemented** Role-Based Access Control (RBAC) for secure, role-specific access to system features.

- **Enabled** JWT-based login authentication for secure user login and session management.
- **Built** the backend using Python and FastAPI, ensuring high performance and scalability.
- **Managed** the database with PostgreSQL and SQLAlchemy for efficient data handling and storage.

02/2024 – 04/2024

Console-Proxy server API, *Quehive Technologies*
Languages and Technologies Used:**Python, FastAPI, MongoDB, Linux,AWS**

- **Developed** a console proxy server to manage and access multiple virtual machines (VMs) in a Single VirtualBox (SVB) environment.
- **Enabled** secure console access for VMs running Ubuntu, Windows, and other open-source images.
- **Implemented** backend with Python and FastAPI to handle multiple concurrent VM connections.
- **Used MongoDB** for data storage and management of VM configurations and access details.
- **Deployed** the solution on Linux servers, with AWS cloud integration for scalability and reliability.
- **Ensured** secure access control and smooth integration between different VM images and the proxy server.

01/2023 – 02/2023

Read My Book Web Application
Languages and Technologies Used: **HTML, CSS, JS, Python, MySQL, Flask**

- Developed an application that converts physical books to audiobooks using OCR (Pytesseract) and Text-to-Speech (gTTS) technologies.
- Integrated multiple English accents (male and female voices) for diverse audiobook experiences.
- Built a web interface with Flask, allowing users to upload images of books and listen to audio output.

10/2022 – 12/2022

IoT Based Smart Crop Protection System for Agriculture, *IBM Project*
Languages and Technologies Used: **C, Python, Sensors, Openweather API, MIT App inventer**

- Developed an IoT-based mobile application to monitor and protect agricultural land.
- Enabled remote control of motor switches through the app for irrigation management.
- Integrated notification system to alert users if unauthorized access is detected on the field.
- Automated motor operation based on weather conditions and soil moisture levels.
- Displayed real-time soil moisture data to optimize irrigation processes and enhance crop management.

Interpersonal Skills

- Strong communication and customer interaction skills.
- Team player with a proactive approach to problem-solving.

Languages

Tamil **English**