SWAPNIL PATIL

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Profile Summary

- **10.8+ years of IT experience** as a Software Engineer with diverse roles and skill sets.
- Proficient in **end-to-end software development**, including requirement analysis, system study, designing, coding, testing, debugging, documentation, and implementation.
- Extensive **Python development experience** on both Linux and Windows platforms.
- Experienced in **REST API development** using Fast **API** and **Chalice Framework with Python**
- Experienced in **cloud automation** using **Ansible, Python, and Shell scripting** on **Linux and Windows.**
- Proficient in **backup automation** with **IBM Tivoli Storage Manager**.
- Adept at working within **Agile methodologies**
- Experienced in **handling build and production issues**
- Proficient in **Azure and AWS technologies**
- Experienced in **IoT** with **MQTT, HTTP, and TCP/IP protocols using Python**.
- Skilled in **backend development with Python scripting** on Windows and Linux platforms.
- Knowledgeable in **DevOps tools** such as **Git, Docker, and Jenkins**.
- Experienced in **ERP development using ERPNext** with the **Frappe framework**.
- Proficient in **web development** using HTML, CSS, and JavaScript.
- Experienced in conducting **root cause analysis**.
- Experienced in **full stack development**
- Knowledgeable **in GenAI API integration with python (Gemini and OpenAI)**

Cloud Certifications

- Microsoft Azure Fundamentals **(AZ-900) Certified**
- Microsoft AI Fundamentals **(AI-900) Certified**

Education

Master of Engineering (Computer science) – MITM Indore (RGPV) – 2015
Bachelor of Engineering (Computer science) – SDITS Khandwa(RGPV) – 2011

Work Experience

Persistent Systems Limited - Pune, India – Nov 2021 - Present
Engineering Lead
Project: CMS

- Utilizing **Python and Shell scripting** for various tasks.
- Developing **custom modules** in **Python**.
- Working within **Agile and Scrum methodologies**.
- Performing **cloud automation** with **Ansible on both Windows and Linux platforms**.
- Managing **IBM TSM backup automation on 3.X/Azure/AWS** cloud environments.
- Enabling **end-to-end features development**.
- Handling **builds and production issues**.
- Conducting **root cause analysis**.

Key Skills and Knowledge

Programming Skills:
- Python scripting
- Shell Scripting
- PHP

Python for Rest API
- Fast API
- Flask
- Chalice Framework

ERP Development
- Frappe Framework

ML Skills:
- Streamlit (Python)

Automation Tool
- Ansible
- chef

Storage Management Tool
- IBM Tivoli Storage Manager

Cloud
- AWS
- Azure

Databases
- PostgreSQL
- MySQL
- SQLite

Front End:
- HTML
- CSS
- JavaScript

Data Formats:
- JSON
- YAML
- XML

Other Skills
- REST API
- Internet of Things (IoT)
- Raspberry Pi

- Reviewing code written by other team members.
- Involved **in development and testing processes.**
- Participating in **client meetings.**

Softdel Systems Pvt Limited - Pune, India – Feb 2021 – Nov 2021
Sr. Software Engineer (Python, Rest API, Database, Docker)

- **Backend development** using Python web frameworks.
- Experienced in **REST API development**.
- Worked with **PostgreSQL databases**.
- Experience in the **IoT domain**.
- Proficient in **Agile and Scrum methodologies**.
- Conducting **code reviews** for team members.
- Exploring new technologies and participating in **decision-making** for new projects.
- Attending **client meetings**.

Powercon Ventures India Pvt.Ltd- Pune, India – Jan 2019 – Feb 2021
Application Engineer (Python, Frappe & ERPNext, Database, IoT, jQuery)

- Gathering requirements from end-users.
- Analyzing and understanding business needs in the renewable domain.
- Developing applications using the **Frappe framework.**
- Creating **real-time dashboards**.
- Developing **custom modules in Python**.
- Customizing existing applications.
- Developing workflows for approval processes and report generation.
- End-to-end feature development.

AVRON - Pune, India – Nov 2013 – Jan 2019
Full stack Developer (Python, PHP, Rest API, Database, Docker, HTML, CSS)

- Exploring new technologies and **participating in decision-making** for new projects.
- Understanding and analyzing business requirements.
- Engaging in research and development.
- Involved in product architectural design.
- Developing software using **Python and PHP**.
- End-to-end feature development.
- Conducting **code reviews for team members.**
- Communicating with clients.

Project Details

Softdel Systems Pvt Ltd
Light cloud
Role: Backend developer

Responsibilities:
- Engaged in REST API development.
- Conducted testing and bug fixing.
- Participated in client meetings.

Environment: Python , FastAPI, AWS, postman, PostgreSQL, jira, docker, linux

Equipment Management Platform
Role: Backend developer

Right column:

- **Gen AI:** API Integration (Python)
- Docker
- Encryption

Tools
- Git & SVN
- JIRA
- Postman

IDEs/editors
- PyCharm
- Visual studio
- Vim editor

Platform
- Linux (**RHEL, SUSE and Ubuntu**)
- Windows

Domain
- Cloud managed services for SAP
- IoT
- Weather analysis
- Renewable domain

Responsibilities:
- Engaged in REST API development
- Conducting testing and debugging

Environment: Python , Chalice framework, postman, PostgreSQL, linux

Powercon Ventures India Pvt.Ltd

PowerERP

Role: Application Developer

Responsibilities:
- Developed applications using the Frappe framework.
- Analyzed and understood business processes in the renewable energy domain.
- Assessed various modules based on business requirements.
- Customized ERPNext doctypes.
- Created reports, charts, and dashboards.
- Implemented approval workflows and real-time dashboards.
- Conducted testing and bug fixing.

Skills Used: ERPNext , Frappe Framework python,JQuery, jinja, MySQL, linux

Data Acquisition System for Remote Locations

Role: Application Developer

Responsibilities:
- Participated in development.
- Conducted testing and bug fixing.

Skills Used: Python, TCP, FTP , MQTT , RaspberryPi , SQLAlchemy, PostgreSQL, SQLite

AVVRON

O & M Vehicle Monitoring System (IoT)

Role: Fullstack Developer

Responsibilities:
- Participated in software development.
- Conducted testing and bug fixing.
- Attended client meetings.
- Worked on production environment.

Skills Used: PHP, python, PostgreSQL, TCP, MQTT

Weather Monitoring System (IoT)

Role: Full stack Developer
Responsibilities:
- Participated in development.
- Generated reports.
- Analyzed weather data.
- Conducted testing and bug fixing.

Skills Used: Python,PHP,HTML,CSS,IoT, AWS, Skitlearn, Pandas, PostgreSQL

Intelligent Irrigation System (IoT)
Role: Full stack Developer
Responsibilities:

- Participated in requirement gathering.
- Engaged in development.
- Designed architectural solutions.
- Conducted testing and bug fixing.

Skills Used: Python, MySQL, IoT, AWS, Git