

## Python Engineering Profile

Experienced Software Engineer | Healthcare Integration Specialist | Python Enthusiast | Azure Cloud Practitioner | Agile Team Player.

### Technical Skills:

**Python Development:** REST APIs, and data processing pipelines.

**REST API Development:** RESTful APIs using **Python Flask frameworks** and containerized via Docker.

**Git:** Git for version control and collaborative development.

**SQL:** querying and managing databases utilizing MySQL Database.

**Asynchronous Programming:** async/await in Python to optimize the performance and responsiveness of data processing pipelines.

**Multithreading:** Resource utilization and improving overall performance.

**Code Quality Maintenance:** Flake8, Pylint, and Pybandit to ensure high-quality codebases.

**Healthcare Integration:** FHIR health records and implementing healthcare data management solutions.

**Azure Cloud Services:** various services such as Azure Functions, Azure Storage, Azure SQL Database, Azure Blob Storage and Azure Kubernetes Service (AKS).

**Agile Methodology:** sprint planning, collaborating with cross-functional teams, and delivering project milestones.

### Project Experience

HealthCare Organization Management API | Year: 1 Sep, 2022 - Present

- Developed and maintained a Flask based REST API to handle healthcare organization data on the Azure cloud platform.
- Handling Various changes on the Database of the system as per new business needs utilizing Flask-SQLAlchemy.
- Adding the new logic as per the pre-written code design requirements.
- Implemented endpoints for creating, updating, and retrieving organization data using HTTP requests (POST, PUT, GET) been handled for various business logics.
- Creating and Maintaining schema for the serializers and Models.
- Containerization of the API is carried out using Docker, and management of Docker images is through the Azure Container Registry and deploying them to Azure Kubernetes services.
- Utilized Flake8, Pylint, and Pybandit to ensure high-quality codebases in order to the deployment to pass the Sonar-cube quality checks margin.
- Handling Custom Exceptions by creating separate Exception objects.
- Adding Unit Test cases to check function of each new features added to the system.

## HealthCare Device Integration Pipeline | 2021 Dec - Present

- Design, Develop, and maintain ETL pipelines to extract data from S3 Bucket, Azure Data lake and Relational database sources and transform it according to business needs, and load it into target relational database (MySQL) using tools such as Azure data Factory.
- Design, implement and deploy azure solutions, leveraging services like azure functions, Azure storage, Azure SQL Database.
- Developed serverless azure functions based on Time and HTTP (POST, PUT, GET) triggers for processing of records.
- Worked in agile environment, participate in sprint planning, and contribute to the development and delivery of user stories and project milestones.
- Collaborate with cross functional teams, participate in code reviews, and maintain documentation for code, system architecture and deployment process.
- Adding Functional Test cases to check function of each new features added to the system.

## **Job Experience:**

Gold Coast It Solutions | Software Engineer | Notice Period 30 days Negotiable | Aug 2021 – Present.

1. HealthCare Device Integration Pipeline | 2021 Dec - Present
  - a. Pipeline development and maintenance.
  - b. Agile Working in agile Environment.
  - c. Code Quality maintenance.
  - d. Source code management via bitbucket.
2. HealthCare Organization Management API | 2022 Sep – Present
  - a. Rest API development and maintenance.
  - b. Agile Working in agile Environment.
  - c. Code Quality maintenance.
  - d. Source code management via bitbucket.

## **Contact Information & Links**

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GitHub: <https://github.com/Sanjay-Adhitya>

Side Project: <https://pro-man.onrender.com> hosted on free service may take 2 mins to load.