

# Madan Mohan

## Python Developer

Python Developer with 3 years of experience in backend development, API creation, and cloud platforms like AWS. Skilled in Flask, Fast API, Docker, PostgreSQL, and delivering scalable solutions using serverless architectures. A detail-oriented and collaborative team player committed to innovation and on-time delivery.

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## WORK EXPERIENCE

### Python Developer

#### Capgemini India Private Limited

##### Achievements/Tasks

- **Microservices and APIs:** Designed and optimized microservices using Flask and Fast API to improve performance and reliability. Created reusable components to enhance maintainability.
- **Cloud Solutions:** Deployed AWS services such as Lambda, API Gateway, Cognito, and S3. Automated infrastructure provisioning with Terraform, ensuring consistency and scalability.
- **Python Automation:** Developed scripts for file monitoring and data ingestion, uploading files to AWS S3. Built robust pipelines for data transformation and workflow automation.
- **Containerization and Web Apps:** Created a Flask web app with Jinja templates and JavaScript. Implemented Docker-based deployments and streamlined CI/CD pipelines for efficient application delivery.
- **Tech Stack:** Python, Flask, Fast API, AWS (Lambda, Cognito, API Gateway, SNS, S3), Terraform, Docker, SQL Alchemy, Microservices

### Python Developer

#### Rimik Technologies

##### Achievements/Tasks

- **API and Microservices Development:** Built and optimized microservices using **Flask**, integrating scalable APIs to enhance performance and reliability.
- **AWS Cloud Solutions:** Deployed services like Lambda, SNS, and API Gateway using Terraform, automating cloud infrastructure with efficiency.
- **Secure Authentication System:** Built a secure user authentication system using AWS Cognito integrated with Flask, ensuring seamless and reliable access control for users.
- **Authentication with Flask and Aws:** Developed user authentication with AWS Cognito and Flask, ensuring robust and seamless access control.
- **Tech Stack:** Python, Flask, AWS (Lambda, Cognito, API Gateway, SNS), Terraform, Docker, SQL Alchemy, Microservices

## EDUCATION

### Rajasthan State Certificate in Information Technology

#### Vardhman Mahaveer Open University

2019

Kota, Rajasthan

### Graduation

#### Maharaja Surajmal Brij University

2019 - 2022

Bharatpur, Rajasthan

### Intermediate

#### Board of Senior Secondary Education

2017 - 2018

RAJASTHAN, AJMER

## SKILLS

Python

SQL

PostgreSQL

Flask

RESTful APIs

MongoDB

AWS Lambda

API Gateway

EC2

s3 bucket

SNS

CloudWatch

DynamoDB

boto3

pandas

Docker

Git

Unit Testing

Integration Testing

## PERSONAL PROJECTS

### Python Scripts:

- **Python Scripts:** Developed Python scripts for data and file manipulation on clients' systems. We implemented file monitoring to detect changes and new files in a directory, uploading them to the AWS S3 bucket.
- **Transformed CSV data** according to predefined rules, defined in a separate CSV.

### Pattern Matcher Web App

- Created a Flask web app with Jinja templates and some JavaScript
- Displayed and modified data from a database, launched a Tkinter app, and included an admin panel for managing permissions and user requests.

### Management System

- Led the development of a Python Flask-based management system, employing RESTful API architecture for efficient team and client management.
- Implemented activity tracking, project quality control measures, and secure user authentication to establish a controlled and secure environment.
- Enhanced communication by integrating an in-app chat feature, facilitating improved team collaboration and client interactions.
- Streamlined workflows to enhance employee productivity, resulting in a comprehensive project management solution and improved operational efficiency. Productivity Streamlining: optimized employee productivity through streamlined workflows, resulting in a comprehensive project management solution, enhancing overall operational efficiency

## CERTIFICATES

Infosys Springboard. (Python) (2023 - 2023)

Learn4o Technology Private Limited (Web Development with React.js ) (2020 - 2020)

Cloud Financial Management(FinOps) (2024 - 2025)

## LANGUAGES

Hindi

Native or Bilingual Proficiency

English

Full Professional Proficiency