



TARUN MADAMANCHI
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SUMMARY

Accomplished Python Developer with over 2 years of expertise in developing and deploying web applications using Python, Flask, and Fast API. Demonstrated expertise in REST API development and integration, coupled with a solid grasp of database technologies such as MongoDB, Redis, and PostgreSQL. Skilled in containerization technologies like Docker and Kubernetes, with hands-on experience in cloud platforms including Azure, GitLab, and GitHub. Possesses strong analytical, problem-solving, and communication skills.

EDUCATION

BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

2018-2022

B.E. in Computer Science

CGPA: 8.06

Enthusiastic computer science graduate with a robust theoretical background and practical experience in software development. B.E. in Computer Science with a strong foundation in the field.

NARAYANA JUNIOR COLLEGE

2016-2018

Pre-University

Percentage: 88.6

Completed a rigorous high school curriculum, excelling in mathematics, physics, and chemistry, demonstrating a strong foundation in STEM disciplines.

EMPLOYMENT HISTORY

KNOWLEDGE LENS - A ROCKWELL AUTOMATION COMPANY

2022 Jan - 2022 Jul / Bangalore

Intern (Back-End Developer) | 6 months Experience

- Learned Flask and Fast API frameworks, implementing CRUD operations in a microservice.
- Contributed significantly to employee management system projects, optimizing PostgreSQL queries for efficient employee data retrieval on the website.
- Executed a comprehensive leave management system, facilitating seamless leave requests and tracking.
- Automated email notifications for leave approval and daily status updates, enhancing communication efficiency.
- Attained proficiency in Arango DB for visualizing map points using latitude and longitude data with the graph feature.
- Scheduled email notifications for individuals lacking attendance, daily status, or birthday wishes in the system.

Skills

Python | Flask | FastAPI | HTML5 | CSS | Jinja2 | PostgreSQL | Arango DB | REST API | PyCharm | Visual Studio | Git-Lab | GitHub | Git | Waterfall

KNOWLEDGE LENS - A ROCKWELL AUTOMATION COMPANY

2022 Jul - Now / Bangalore

Software Developer | 2+ Years Experience

- Full-stack Python Developer is skilled in Flask, FastAPI, and Django frameworks.
- Expertise in REST API development, integrating databases (MongoDB, Redis, PostgreSQL), and containerization (Docker, Kubernetes).
- Proficient in NumPy and Pandas for efficient data manipulation and analysis in Python.
- Proficient in Agile methodologies, Scrum, and Waterfall models for Python-based application development.
- Specialized in Restful web services, successfully integrating multiple applications through REST API.
- Developed seamless integrations with Google APIs and crafted Python SDKs for microservices.
- Proven problem-solving skills, adept at handling errors in large-scale applications.
- Experienced in Docker and Kubernetes for automated deployment and scaling.
- Proficient with NoSQL (MongoDB, Redis) and Relational Databases (PostgreSQL).
- Skilled in various Python IDEs - PyCharm, Visual Studio, Sublime Text.

- Frontend experience with ReactJS and Redux library.
- Strong commitment to continuous learning and staying updated with new technologies.

Skills

Python | Flask | FastAPI | Django | Pandas | NumPy | MongoDB | Redis | PostgreSQL | Docker | Kubernetes | REST API | ReactJS | PyCharm | Visual Studio | Git | Git-Lab | GitHub | Agile | Scrum

PROJECTS

STOCK FORECASTER

Python, Flask, HTML5, CSS, GitHub, Docker, Azure

Stock Forecaster, a web application that leverages historical data from Yahoo Finance to predict the next 7 days of stock prices for BSE-listed companies. Leveraging models like Linear Regression, ARIMA, and LSTM ensure accurate predictions. The system also incorporates sentiment analysis of Twitter data for market insights. An innovative tool for informed financial decisions, Stock Forecaster enhances stock price precision. This comprehensive tool, combining data analysis and sentiment evaluation, enhances stock price precision.

EMPLOYEE MANAGEMENT SYSTEM

Python, Flask, PostgreSQL, Git-Lab, Docker

The Employee Management System is a web application designed for HR, admin, and employee functionalities, featuring a Leave Management System with automated approval emails and a dynamic leave calendar. The platform streamlines daily and weekly goal submissions, notifying leads for effective tracking. An employee directory enhances team collaboration, optimizing overall efficiency. The system supports various leave types, ensuring timely and automated approval processes, while also simplifying daily status submissions and automating goal review notifications. With user-friendly interfaces, it provides a comprehensive solution for seamless employee management.

UNIFYTWIN

Python, Fast API, MongoDB, PostgreSQL, GitLab, Kubernetes

UnifyTwin stands as a cutting-edge industrial product, transforming asset management and data analytics. It seamlessly collects sensor data from IoT devices, monitoring parameters like temperature, air pressure, and steam. The product excels in supporting digital twin services, proactively raising alarms for anomalies. With robust visualization capabilities, UnifyTwin tailor's sensor data meets client requirements. Users can create forms, generate reports, and design dashboards for optimal data representation. The platform caters to diverse industries, featuring specialized apps with case studies like Smart Energy and Yield Optimizer. Prioritizing user-centric design, UnifyTwin ensures efficient user and role management with granular permissions for enhanced security.

SKILLS

PROGRAMMING LANGUAGES

: Python, JavaScript, HTML5, CSS, C

DATABASES

: MongoDB, PostgreSQL, MySQL, Redis DB, Arango DB

FRAMEWORKS

: Flask, Fast API, Django, ReactJS

SDLC METHODOLOGIES

: Agile, Scrum, Waterfall Model

VERSION CONTROLS

: Git, Git-Lab, GitHub

IDE'S

: Visual Studio, PyCharm, Sublime Text, Atom, Jupyter Notebook

LANGUAGES

: Telugu, English, Kannada, Hindi, Tamil

EXTRA

- Enjoys traveling and experiencing different cultures.
- Finds joy in capturing moments through photography.
- Always eager to learn new things.
- Fitness enthusiast, dedicated to maintaining a healthy and active lifestyle.