

# HEMANTH RAJ S

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## CAREER SUMMARY

Python Developer with 1 year of hands-on experience, in building scalable web applications using Flask, Django, and Django REST Framework. Skilled in API design, backend development, and database management with MongoDB, PostgreSQL and Azure Cosmos DB. Proficient in creating secure, efficient systems with authentication, authorization and cloud integration. Passionate about solving technical challenges and contributing to innovative projects in collaborative environments.

## CERTIFICATES

### Programming In Python (T4TEQ Software Solutions) | [CERTIFICATE](#)

December 2021

- Successfully completed an in-depth course covering core and advanced concepts such as control flow, loops, functions, file handling and object-oriented programming, enabling the development of efficient and maintainable applications.

### Web Designing (T4TEQ Software Solutions) | [CERTIFICATE](#)

March 2022

- Acquired practical skills in HTML, CSS and JavaScript to design responsive, accessible and visually appealing web interfaces, focusing on user experience and cross-browser compatibility.

### Django REST API (Udemy) | [CERTIFICATE](#)

February 2025

- Gained hands-on expertise in building, testing and deploying RESTful APIs using Django REST Framework, with emphasis on authentication, serialization and integration with databases for scalable backend solutions.

## SKILLS SUMMARY

- Languages** : Python, JavaScript
- Frontend** : HTML, CSS, Tailwind CSS, React
- Backend** : Flask, Django, Django REST Framework, Streamlit, Node.js, Express.js
- Databases** : MongoDB, PostgreSQL, Azure CosmosDB, MySQL
- Cloud & Platforms** : Microsoft Azure, GitHub
- APIs** : RESTful APIs

## WORK EXPERIENCE

### Associate Python Developer | By8labs

December 2024 - Present

- Built an **AI-powered web application** using **Python (Flask)**, and **GPT-based models**, with **Azure Cosmos DB** for secure and efficient data storage.
- Engineered and optimized **RESTful APIs for AI interactions**, ensuring **seamless communication between the frontend, backend, and AI model**.
- Enhanced **system reliability by 30%** through the implementation of **authentication, authorization, and security mechanisms**.
- Collaborated with **cross-functional teams** to refine AI features, improve performance efficiency, and resolve technical challenges.
- Integrated **cloud-based services** for model deployment and scalability, enabling **faster response times** and an improved user experience.

## PROJECTS

### DICOM 3D Visualization and Heart Segmentation Tool:

- Built a Python-based desktop application using **PyQt5** for **DICOM image loading, processing, 3D visualization, and STL file export**.
- Implemented **automated heart segmentation** techniques to enhance **diagnostic accuracy and medical imaging workflows**.
- Optimized **image preprocessing and rendering performance** to ensure smooth visualization and faster analysis.

### e-MOI (Electronic - Monetary Obligations and Information):

- Built a full-stack **web application** using **Python (Django), PostgreSQL, HTML, CSS, and JavaScript** to digitize and streamline MOI records management.
- Automated **data storage, search, and retrieval workflows**, improving **data accuracy and reducing manual errors by 60%**.
- Implemented a **secure, role-based multi-user system** to ensure **reliable access, faster operations, and efficient information management**.

## EDUCATION

### Master of Computer Application

Trichy, India

Bishop Heber College; CGPA: 7.38

2022 - 2024

### Bachelor of Computer Science

Trichy, India

Bishop Heber College; CGPA: 8.03

2019 - 2022