HEMANTH RAJ S

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CAREER SUMMARY

Python Developer with 8 months 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.

WORK EXPERIENCE

Python Developer | By8labs　　　　　　　　　　　　　　　　　　　　　　　**December 2024 - Present**

- Developed an AI-powered web application using Flask and GPT models, using Azure CosmosDB for efficient data storage.
- Designed and optimized RESTful APIs to AI interactions, ensuring seamless interaction between the model and the application.
- Enhanced system reliability by 30% through the implementation of authentication, authorization, and security mechanisms.
- Worked with diverse teams to refine AI-powered features, boost performance efficiency, and address technical challenges
- Integrated cloud-based services for model deployment and scalability, enabling faster response times and improved user experience.

PROJECTS

Student Management System:　　　　　　　　　　　　　　　　　　　　　　**December 2023- March 2024**

- This initiative was primarily aimed at school pupils. This was created with HTML, CSS, JavaScript (Frontend), Python, Django and SQLite (Backend).
- Switched from paper to digital student records, resulting in a 40% reduction in human mistakes.
- Students may now apply for leave and access their marks, attendance and teacher alerts digitally, decreasing manual queries by 60%.
- The interface allows staff to effectively monitor students, issue reminders, take attendance, check leave applications and provide grades and comments, resulting in a 50% improvement in administrative efficiency.
- Created a computerized system to track student progress, increasing accuracy by 65% and minimizing manual record-keeping mistakes.

e-MOI (Electronic - Monetary Obligations and Information):　　　　　　　**September 2024- October 2024**

- Developed an online system to store and maintain MOI details in a database, enabling efficient and accurate searching for particular information.
- Developed with HTML, CSS, JavaScript (frontend), Python, Django and PostgreSQL (backend).
- Replaced a manual, time-consuming and error-prone system with an online platform that provides quick, user-friendly and accurate data retrieval. This reduced human errors by 60% and minimized the probability of missing names.
- The system provides a user-friendly interface, faster information retrieval, less mistakes and internet accessibility.
- The system will be adapted for numerous users, including data uploads in several local languages and a mobile app.

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
- **Cloud & Platforms** : Microsoft Azure, Git
- **APIs** : RESTful APIs

EDUCATION

Bishop Heber College　　　　　　　　　　　　　　　　　　　　　　　　　Trichy, India
Master of Computer Application; CGPA: 7.38　　　　　　　　　　　　　　　**2022 - 2024**
Bishop Heber College　　　　　　　　　　　　　　　　　　　　　　　　　Trichy, India
Bachelor of Computer Science; CGPA: 8.03　　　　　　　　　　　　　　　　**2019 - 2022**

CERTIFICATES

Programming In Python (T4TEQ 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 Solution) | 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.