

Udhayakumar Ramasamy

Python developer | 3+years of experience

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Linkedin | Portfolio | GitHub

SUMMARY

Experienced Python Developer with 3+ years of expertise in Python, Django, REST API, SQL, ORM and MongoDB. Skilled in developing backend solutions and working with stored procedures for efficient database management. Hands-on experience with open-source Large Language Models (LLMs) to integrate AI-driven features into applications. Committed to continuous learning and contributing to organizational success. Actively seeking opportunities as a Python Backend, Software Engineer(python), or Full Stack Developer. Available to start immediately and eager to bring technical expertise and passion for coding to a dynamic team.

EDUCATION

PANIMALAR ENGINEERING COLLEGE
Mechanical Engineering Bachelor of Engineering
Percentage: 71.53%

June 2017 - April 2021
Chennai,india

EXPERIENCE

iSolve Technologies PVT LTD | Project Associate
- Present

Chennai,india | April 2025

- Experience in automation by developing mail attachment downloader using Python.
- Hands-on experience with open-source LLMs using Ollama for building LLM-based chat solutions and Document Processing.
- Built a document automation pipeline using a YOLO object detection model to identify Aadhaar numbers, extract bounding box coordinates, and automatically mask Aadhaar numbers in files to ensure data privacy.

WHITE HOUSE BUSINESS SOLUTIONS PVT LTD | Junior Programmer
2022 - February 2025

Chennai,india | September

- Experience in Agile Methodology in software development.
- Experience in automation by developing notifications for approval stages of production workflows via mail, WhatsApp, SMS, and Telegram using third-party APIs and SMTP with Python.
- Design and implement scalable, high-performance database solutions using SQL technologies like MySQL and PostgreSQL.
- Collaborated with front-end developers to build and optimize user interfaces.

WHITE HOUSE BUSINESS SOLUTIONS PVT LTD | Trainee Chennai,india | April 2022 - September 2022

- Completed a comprehensive 6-month training program focused on Backend development.
- Gained proficiency in Python, Django, MySQL, and Rest API.

SKILLS

Programming Languages
Libraries/Frameworks
Tools / Platforms
Databases
OCR & Image Processing
AI & LLM Integration
Frontend technologies

Python, SQL
Django, jQuery, RESTful API, Pandas, Fastapi, Tornado, Redis,
Github, GitLab, VS Code, Dbeaver, MySQL Workbench, Anaconda
MySQL, ORM, PostgreSQL, Store Procedure, MongoDB, MS SQL
OpenCV & PaddleOCR
Ollama & LM Studio (LLM Runtime), Llama 3.1, Qwen VL & Qwen 2.5
HTML5 and CSS3

PROJECTS

DYNAMIC APPLICATION BUILDER (IBEX) - Python, Django, PostgreSQL, jQuery, RESTful APIs

- A dynamic application builder for creating robust applications. Ibex is a low-code platform that allows users to build custom applications with a drag-and-drop interface.
- Enables users to create dynamic and functional apps without extensive coding knowledge.
- The main theme of the application is 'no code low code'.

Email Downloader & Preprocessing Automation - Python, win32com.client(Outlook)

- Developed an automation script using Python and the Outlook client (via win32com) to download attachments from specific folders and email subjects.
- Implemented preprocessing logic to clean, validate, and transform invoice data for further analysis.
- Supported automation for daily scheduled runs and structured output in JSON format for downstream usage.

Invoice AI-Powered Text Extraction from True PDFs using Ollama Qwen 2.5 & VL- Python, OpenCV, Ollama, Qwen 2.5, Qwen-VL

- **OpenCV** to extract text from invoices and scanned documents.
- Utilized LLM models like **Ollama**, **Qwen -VL** & **Qwen 2.5**, an advanced large language model, to extract and structure text content from **PDF documents**.

Achievements

- **Automated Manual Email Processing:** Automated downloading, processing, and extracting invoice attachments from Outlook using Python, win32com.client, and Ollama (Qwen 2.5), which parsed invoice data and returned structured JSON fields (Date, Location, Total, GST, etc.), improving TAT and saving 10+ hours per week.
- **Optimized SQL Performance:** Reduced MySQL query execution time by 60% through stored procedure and Index optimization.