ADHIL M

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PROFESSIONAL SUMMARY:

Software Engineer with 1+ years of hands-on experience in Python application development and supporting data analytics work. Contributed to internal LMS and spaced-repetition systems built with FastHTML and MVC architecture. Worked on financial reporting projects involving Power BI dashboards and data preparation using Excel and Power Query. Recently expanded backend skills through hands-on Django (MVT) and RESTful API projects. Seeking Python Development roles focused on building and maintaining Python applications.

SKILLS:

Backend & Application Development: Python, Django (MVT), FastHTML, HTMX, RESTful API.

Databases & ORM: SQL (Window Functions, Joins, Subqueries), SQLite, DuckDB, SQLAlchemy.

Testing & Quality: Pytest(Unit Testing), Playwright, Test-Driven Development (TDD), BDD.

Data Analytics (Supporting): Pandas, Power BI, Power Query, Excel, Data Modelling, Data Validation

Architecture & Design: MVC, Medallion Architecture (Bronze, Silver, Gold)

Tools & Version Control: Git, GitHub, MS Teams, Outlook, Railway, Render

WORK EXPERIENCE:

BI Squared Consulting Ltd   *Chennai*

Associate Software Engineer - Data & Python Development   *April 2024 - Present*

Projects:

IOM USRAP Dashboard

- Developed BI dashboards at the summary and departmental levels to improve visibility into key budget and operational trends.
- Contributed to Power Query data preparation, including cleaning, merging, and transforming datasets for reporting needs.
- Performed thorough data validation to ensure 100% accuracy and reliability in reporting figures.
- Designed clear summary visuals that highlighted key trends and overall progress, enabling teams to make better decisions.

LMS (Internal)

- Developed a Python-based LMS application using FastHTML and MVC architecture to manage quizzes, users, and results.
- Designed quiz workflows with automated scoring logic and result summaries, reducing manual evaluation effort.
- Integrated Excel-based data import and export using Pandas and Openpyxl with SQLite backend storage.

Quran SRS

- Developed a memorisation and revision tracking system used daily by students, enabling structured progress tracking across five learning modes.
- Designed workflows for memorisation, recent review, watch-list, monthly cycles, and adaptive SRS logic.
- Implemented a multi-role user system allowing parents and teachers to manage multiple student profiles from a single account.
- Delivered clear summary pages and progress views to help users track targets and achievements.

PROJECTS:

Portfolio

- Built and deployed a portfolio website using Python and FastHTML.
- Implemented page routing, reusable components, and a contact form.
- Managed static assets such as CSS, images, and downloadable files.
- Used AI-assisted suggestions (Gemini) for content and basic styling support.

Own Space - Django Todo Application

- Developed a task management application using Django MVT architecture and SQLite.
- Implemented full CRUD functionality with task categorisation and completion states.
- Applied the Post/Redirect/Get (PRG) pattern to ensure safe form submissions.
- Maintained database schema changes using Django migrations.

CERTIFICATIONS:

- Introduction to Python - Guvi
- Build a Face Recognition Application using Python - Guvi
- 100 days of code - The Complete Python Pro Bootcamp - Udemy
- SQL (Basics & Intermediate) - HackerRank
- AI For India 2.0 - Guvi
- Data Analysis using Microsoft Excel - Coursera
- Microsoft Power BI Desktop for Business Intelligence - Udemy

EDUCATION:

Jamal Mohamed College of Arts and Science   Tiruchirappalli, Tamil Nadu, India
Bachelor of Computer Science | **78.76%**   *Graduation Date: May 2023*