

Marwa Abubaker

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ABOUT ME

Versatile Full-Stack Software Developer & Data Engineer with 3+ years of experience building Python web applications, automated analytics engines, REST APIs, and database pipelines. Skilled in Python (Flask), SQL, JavaScript, HTML/CSS, and automated testing/scraping utilities. Demonstrated track record of optimizing operational workflows, designing interactive user interfaces, and integrating external APIs and machine learning pipelines. Seeking a Software Developer, Python Engineer, or Full-Stack Data Developer role to build scalable digital applications.

WORK EXPERIENCE

MetroRedx Power Solution

City: Hyderabad | **Country:** India | **Name of unit or department:** Commercial Administration |
Business/sector: Administrative and support service activities

[15/06/2023 - 11/06/2026]

Administrative & Data Operations Executive

- **Scripting & Automation:** Developed custom Python automation scripts and macro workflows, achieving a 35% reduction in system processing errors and saving over 8 hours of manual overhead weekly.
- **Database Management & Quality Control:** Maintained database integrity across large procurement and operational datasets via automated data cleaning, ETL pipelines, and reconciliation routines.
- **Analytical Visualization:** Built executive-level analytical dashboards to monitor core performance indices and support strategic operational decision-making.
- **Cross-Functional System Integration:** Partnered with engineering, administrative, and logistics teams to deliver structured technical reporting and reliable data pipeline infrastructure.

EDUCATION & TRAINING

[10/06/2021 - 29/10/2024]

Bachelor of Business Administration (BBA)

Osmania University

City: Hyderabad | **Country:** India | **Final grade:** 8.6 | **Level in EQF:** 6 | **Thesis:** Customer Satisfaction - Tata Motors

PROJECTS

Centralized Portfolio Platform & Developer Hub

Designed, developed, and deployed a modern full-stack portfolio platform hosting interactive web applications, automated analytics utilities, and technical project demonstrations.

Link: marwaabubaker.is-a.dev

Full-Stack Web Apps & Generative AI Systems (QuietSpace, DEV.HUB, Stock.Core, KINO.SPIEL, AIFA)

- **Tech Stack:** Python, Flask, JavaScript, SQL, REST APIs (GitHub, OpenRouter LLM, TMDb/IMDb, Have I Been Pwned), Jinja Templates
- Built production-ready web applications featuring real-time API integrations, secure credential hashing, automated session handling, persistent database query logic, and conversational AI prompt parsers.

Operations, Machine Learning & Analytics Consoles (AutoInsight AI, AURA, Visual Dispatch)

- **Tech Stack:** Python, Pandas, Scikit-Learn, Flask, Advanced MS Excel, Dynamic Formulas
- Engineered data transformation pipelines and interactive dashboards enabling dynamic CSV/Excel parsing, row/column filtering, real-time telemetry visualizers, and predictive ML model evaluations.

Technical Handbooks & Translation Automation Engine (Python, SQL, Excel, WebDev, GitHub Guides)

- **Tech Stack:** MkDocs, Python, Markdown Automation.
- Authored a digital technical library and built custom Python scripts to parse Markdown assets and automate English-to-German documentation translation.

Academic Data Analysis: Customer Satisfaction Models (SPSS & Excel)

- Designed feedback surveys and managed data cleaning operations for large-scale consumer datasets.
- Conducted statistical analysis in SPSS and Excel to generate pricing and service quality insights.

CERTIFICATIONS

The Complete Python Developer Certificate

Advanced Microsoft Excel & Dashboard Creation

SQL for Data Management (Practical Knowledge)

LANGUAGE SKILLS

Mother tongue(s): Urdu | Hindi

Other language(s): English: C2 | German: A2 (Basic Knowledge / Continuous Learning)

SKILLS & COMPETENCIES

Digital & Technical Skills

Software Engineering & Web Development: Python (OOP, Design Patterns), Flask Framework (Routing, Server Setup, Dynamic Templates), HTML5, CSS3, JavaScript, RESTful APIs, Web Scraping & Automation (BeautifulSoup, Selenium)

Data Science, ML & Analytics: Data Engineering & Cleaning (Pandas, NumPy), Scikit-Learn (Predictive ML Pipelines), SQL (Query Optimization, Relational Database Design), Advanced Excel (Macros, Dynamic Dashboards)

Security, Vision & External APIs: API Hashing (Breach Logic), OpenCV (Computer Vision Processing), OpenRouter API (LLM Integration), TMDb/IMDb APIs, GitHub REST API, Weather & FX APIs

DevOps, Version Control & Environments: Git / GitHub, Linux/Unix Shell Scripting, PyCharm, Anaconda, MkDocs, Static Site Generation

Programming, Data Science & Analytics

Programming & Scripting: Python (OOP, Automation, Custom Scripting), SQL, Bash/Terminal.

Data Science & ML: NumPy, Pandas, Scikit-Learn, Statistical Models, SPSS.

Web Dev & Automation: Flask (Server Setup, Routing, Templates), BeautifulSoup (Web Scraping), Selenium (Web Automation), API Integration.

Data Operations: Data Analysis, Master Data Management (Stammdatenpflege), Data Validation & Cleaning, KPI Reporting.

Software, Systems & Environments

Development Environments: Linux, PyCharm, Anaconda, Git/GitHub, MkDocs.

Business Systems: Advanced MS Excel (Pivot Tables, VLOOKUP, XLOOKUP), ERP Systems, Dashboard Reporting.

Office Productivity: Microsoft Office Suite (Word, Excel, PowerPoint, Outlook).

Office Operations & Administration

Office Management: Digital Document Management, Record Keeping, General Back-Office Support.

Workflow Optimization: Process Optimization, Quality Control, Administrative Task Automation.

Data Governance: Secure and Confidential Handling of Sensitive Corporate Data.

Core Professional Competencies

Analytical Mindset: Strong Analytical Thinking, Meticulous Attention to Detail, Data Integrity & Accuracy.

Organization & Execution: Exceptional Time Management, Project Reliability, Strong Organization Skills.

Collaboration: Clear Professional Communication, Teamwork, Intercultural Competence.