

FEROZ ARSHAD

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Summary

Junior Python Developer with ~1.5 years of specialized experience in backend architecture, API design, and data processing. Transitioned from a web development background to focus on building robust FastAPI/Django systems and Data Engineering pipelines. Proven track record of automating complex workflows, including financial CSV processing and unstructured PDF data extraction. Passionate about writing clean, maintainable code and solving real-world data problems using LLM workflows.

Technical Skills

- **Languages:** Python (Intermediate), SQL, JavaScript.
 - **Backend Frameworks:** FastAPI, Django, REST APIs.
 - **Data Engineering:** CSV Processing, Data Normalization, PDFMiner, PDFPlumber, JSON Structuring.
 - **Infrastructure & Tools:** Git, GitHub, Postman, VS Code, n8n (Automation).
 - **Databases:** PostgreSQL, MySQL.
 - **Integrations:** Stripe API, Public Data APIs.
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PROFESSIONAL EXPERIENCE

BRIGHTPATWAYS PTE. LTD |

MALAY DICTIONARY DIGITIZATION & CHATBOT | AUG 2025 - MAR 2026

- **Scope:** Automated the extraction of a complex dictionary from PDF to structured database for a client using json structure and postgresql.
- **Extraction Logic:** Wrote custom Python scripts using PDFMiner and PDFPlumber to parse nested definitions, preserving hierarchical relationships in Malay text.
- **Automation:** Transformed raw PDF data into structured JSON and integrated it with an n8n workflow to power a WhatsApp/WeChat dictionary bot.
- **Technologies:** Python, PDFMiner, PDFPlumber, JSON, Rule-Based Parsing, n8n

VIRAL CONNECTIONS |

PYTHON BACKEND DEVELOPER | MAR 2023 – JULY 2025

- **Data Pipeline Automation:** Developed Python scripts to automate the ingestion and cleaning of large-scale financial CSV datasets from diverse clinic sources, significantly reducing manual data entry errors.
- **API Development:** Built and optimized high-performance FastAPI endpoints to calculate and serve real-time KPIs (e.g., Customer Retention, Revenue Growth) for client dashboards.
- **Payment Integration:** Integrated the Stripe API to manage monthly subscription lifecycles, including automated billing and plan upgrades.
- **Security Implementation:** Secured API endpoints using JWT authentication and implemented rate-limiting to ensure system stability for multi-tenant users.
- **Technologies:** Python, FastAPI, CSV Data Processing, Data Ingestion, KPI Analytics, Stripe API, API Rate Limiting & Authentication (JWTtoken)

RANKYARD | WEB DEVELOPER | MAR 2020 – FEB 2023

- Developed and customized WordPress themes and plugins for international clients, ensuring responsive design and SEO performance.
 - Managed frontend layouts and server-side configurations.
 - Leveraged this period to gain a foundational understanding of HTTP, server architecture, and full-stack logic before pivoting to backend Python development.
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TECHNICAL PROJECTS

THE TRUTH NETWORKS | FACTFLOW – FACT CHECKING & DATA VERIFICATION TOOL

- **Scope:** Built a backend service to validate user claims against authoritative public data using smart routing in python .
 - **Implementation:** Designed a Python smart routing that aggregates real-time data from 15+ public sources (including Census and CPI APIs) and call the specific api.
 - **ML Integration:** Implemented a regression-based scoring model to evaluate claim confidence; generated a synthetic training dataset using LLM workflows to improve model accuracy.
 - **Data Structure:** Engineered a normalized schema to map unstructured text claims to verified statistical metrics.
 - **Technologies:** Python, REST APIs, Data Processing, Regression Models
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Education

Bachelor of Computer Science with **3.53 CGPA**, The Islamia University of Bahawalpur | **2019 – 2023**