

ANKIT VERMA

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SUMMARY

Backend-focused Software Development Engineer with 3+ years of experience designing Python microservice architectures for payroll systems, banking integrations, ETL pipelines, and enterprise automation platforms, alongside end-to-end Microsoft Power Platform delivery. Built and maintained 30+ FastAPI/Flask microservices in production, secure API-driven systems processing 400–500 payroll records per run, 40k–50k record ETL batches, and 300–400 monthly banking API disbursements. On the Power Platform side, modeled Dataverse as the core data layer, built Power Automate flows that orchestrate event-driven automation and call backend APIs for heavy processing, and designed Power Apps canvas frontends used daily by HR, MIS, and IT teams. Experienced with FastAPI, Flask, Power Apps, Power Automate, Dataverse, Microsoft Graph API, OAuth2/MSAL, Docker, Redis, and LLM-based workflow automation (CrewAI, Anthropic Claude API).

EXPERIENCE

Software Development Engineer – Backend & Integrations | Gigmo Solutions Pvt Ltd *June 2023 – Present*

- Designed and maintained 30+ Python microservices (FastAPI, Flask) spanning payroll, gig-worker operations, and HR/employee-management domains, containerized with Docker and scheduled via APScheduler cron orchestration.
- Architected a FastAPI payroll engine processing 400–500 gig workers per run across 3–4 monthly cycles with configurable incentive and deduction logic.
- Integrated ICICI outward remittance APIs with AES/RSA hybrid encryption handling ~300–400 transactions/month, reducing payout processing turnaround from 5 days to 1.
- Built a Flask reverse-feed API ingesting encrypted bank transaction updates with API-key authentication, validation, and structured error handling.
- Designed ETL pipelines ingesting 40k–50k record Excel batches using Pandas, implementing validation, KPI computation, and Dataverse OData \$batch writes.
- Built OCR-based document processing pipelines (Tesseract, pdf2image, pdfplumber) for automated invoice and exception handling.
- Integrated LLM-based automation into internal operations tooling, using CrewAI multi-agent orchestration and the Anthropic Claude API to automate case handling and reporting workflows.
- Introduced Redis caching for high-throughput internal dashboard and reporting services.
- Automated a productivity-data ingestion pipeline processing 100–120 employee records/day, eliminating 2–3 hours/day of manual attendance work.
- Developed a secure letter issuance and verification platform with RSA digital signatures, PDF hash validation, and SharePoint Graph API integration.
- Implemented OAuth2 client-credential authentication (MSAL), token caching, retry logic, and structured logging across multiple microservices.
- Automated business communications and notifications via Microsoft Teams webhooks, SendGrid, and Azure Communication Email across payroll and operations services.

Microsoft Power Platform Development (Dataverse, Power Apps, Power Automate) *2023 – Present*

- Modeled Dataverse as the core data layer for organizational tools, designing tables and relationships consumed by both Power Apps frontends and backend microservices.
- Designed and deployed production Power Apps canvas applications for day-to-day organizational workflows, including an exception-handling app, an Employee Self-Service app for attendance/designation tracking, an HR Headcount app for the MIS team, and an IT Audit Records app.
- Built Power Automate flows triggered on Dataverse row create/update events to send automated email notifications and invoke internal backend API endpoints for heavier processing (e.g., payroll and incentive calculations handled by the FastAPI services above).
- Owned end-to-end delivery across the stack — Dataverse data modeling, Power Automate orchestration logic, and Power Apps UI — for tools used daily by non-technical HR, MIS, and IT staff.

CORE SKILLS

Backend / API: Python, FastAPI, Flask, REST API Design, Async HTTP (httpx), OAuth2 Client Credentials, MSAL

Power Platform: Power Apps (Canvas Apps), Power Automate, Dataverse (Dynamics 365 Web API), OData \$batch

Data / ETL: Pandas, NumPy, Data Transformation, KPI Computation, Excel Processing, Batch Data Pipelines

AI / Automation: CrewAI Multi-Agent Orchestration, Anthropic Claude API, LLM-driven Workflow Automation

Integrations: Microsoft Graph API, SharePoint, ICICI Bank APIs, Zendesk, GreytHR, Teams Webhooks, SendGrid, Azure Communication Email

Security: RSA Cryptography, AES-256-CBC Encryption, Digital Signatures, API Key Authentication, Secure Payload Processing

Platform / DevOps: Docker, Redis, APScheduler, Logging & Observability, Retry Logic, Token Caching

EDUCATION

Master of Computer Applications (MCA) – Amity University | 2021 – 2023

Bachelor of Computer Applications (BCA) – CSJMU (Kanpur University) | 2017 – 2020