

Ammad Ashraf

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Education

FAST-NUCES, Islamabad

Bachelor of Science (B.S) in Software Engineering

Aug 2022 – Jun 2026

Experience

AI Automation Engineer

Corvia Consulting | Full-time

Mar 2026 – Apr 2026

Utah, USA | Remote

- Built a production-grade **ETL pipeline in Node.js** integrating **SmartAdvocate (SSRS)** with **Zoho Analytics** via scheduled email-triggered ingestion - implementing **attachment parsing, schema validation, firm-based routing logic**, and direct API insertion to replace a fully **manual Excel-based reporting process** across multiple client workspaces.
- Designed a **fault-tolerant automation architecture** with structured logging, duplicate-prevention via processed email state tracking, per-report import strategy (**append / truncate-and-add / update-add**), and failure alerting - ensuring zero data loss across **nightly pipeline runs**.
- Engineered **reusable schema-driven** config system supporting **multi-tenant data routing**, where a **single generic processing engine handles 5+ report types** across multiple client workspaces without report-specific code - enabling new client onboarding through config changes alone.
- Developed **REST API integrations** connecting Microsoft Graph API (Outlook/O365) and Zoho Analytics API v2 using OAuth 2.0 client-credentials flow for fully **unattended server-to-server authentication** in a background automation context.

AI Solutions Engineer (Software & Automation) | Heritage AI Platform

Nettlio | Part-Time

Sep 2025 – May 2026

Oslo, NOR | Remote

- Designed an **event-driven data acquisition** pipeline to ingest **8+ unstructured legal documents (wills, trusts, insurance policies, POA, assets, datasheet, healthcare proxies)** and route them into domain-specific processing workflows using n8n orchestration.
- Implemented a **centralized dispatch** workflow that classifies incoming events into **four core modules (Data Sheet, Insurance, Assets, Trust Flow Diagram)** and triggers **30+ parallel extraction pipelines** with document-type-aware routing logic.
- Built **AI-assisted** extraction pipelines (**LLMs + n8n**) leveraging **30 specialized prompt templates** that convert raw documents into structured, type-safe JSONB with provenance tracking, **3-tier confidence scoring** (validated/not_validated/missing), and full auditability.
- Engineered a high-integrity PostgreSQL data model** (65+ tables, 200+ JSONB fields) with deterministic entity resolution **across 15+ entity types (clients, trusts, policies, family members)** and conflict-free merge strategies to maintain consistency across complex, evolving datasets.
- Developed a production-grade **analytics dashboard (Heritage AI Platform)** using Loveable with strict **RBAC**, enabling controlled validation, editing, and visualization of extracted data for **wealth management** operations.
- Delivered the system to production (**100+ active users**), replacing a **manual Word/PPT workflow** with a scalable, automated platform - reducing document processing time by **~80%** and generating structured Heritage Books with one-click PDF export.

Software Engineer (Full-Stack & Automation) | [CERTIFICATE](#)

Amulapo.Inc | Internship

Nov 2025 – Dec 2025

Tokyo, JP | Onsite

- Engineered the backend infrastructure for a "**fully automated (unmanned) retail environment**," focusing on high-availability **order processing** and **payment integration** using the **Square Node.js SDK**.
- Designed robust **catalog** and **checkout flows** to handle concurrent user requests, ensuring **100% data integrity** across **distributed payment APIs** (Visa, Apple Pay).
- Designed and implemented a **low-latency**, fully automated **IoT pipeline** to bridge **cloud events** with **physical hardware**.

- Developed a secure system to process real-time **webhooks**, verifying signatures and retrieving metadata from **Square Cloud APIs**, mirroring real-time **data acquisition (DAQ)** workflows.
- Established **persistent, full-duplex WebSocket** connections between a **cloud backend** and a **Node.js-based local server** to manage in-store hardware.
- The "**online-to-physical**" automation enabled the **remote triggering** and control of **hardware dispensers** in different physical stores based on incoming data streams, demonstrating proficiency in **distributed systems** and **hardware-software integration**.

Solutions Engineer | *APIMatic Platform* [CERTIFICATE](#)

Aug 2025 – Oct 2025

APIMatic Pakistan | Internship

Islamabad, PAK | Hybrid

- Collaborated with the **Solutions Engineering** team to design and deliver **Proofs of Concept (PoCs)** for enterprise clients, including **JPMorgan, Shell, Vodafone, and Visa**.
- Converted client **API specifications** into fully functional **API Developer Experience Portals** using the **APIMatic CLI** and platform tooling.
- Integrated the **API Copilot** and **Cursor features** into portals, and authored **API recipes** and workflow documentation to demonstrate real-world developer flows.
- Performed **SDK** compilation and end-to-end testing across **Java, Python, TypeScript, Go, and C#** to validate generated client libraries.
- Implemented **GitHub Actions** workflows to automate **CI/CD** and deployed **API portals** to production via **Cloudflare**.
- Explored and gained deep operational knowledge of the **APIMatic platform, CLI workflows, and automation** capabilities to support technical sales and solution delivery.

Co-Founder

Apr 2025 – Aug 2025

SingleCore Software Solutions [LINKEDIN](#)

Islamabad, PAK | Hybrid

- Co-Founded **SingleCore**, a services-based automation agency that provided **business automation** and **custom development services**.
- Specialized in automation solutions using **Zapier, Make, Monday, n8n**, and custom API integrations to streamline operations.
- Delivered technical services including **full-stack development, cloud infrastructure** setup, **database management**, and **system integrations**.

Backend Engineer – MERN | *Intern Management System for Startup* [CERTIFICATE](#)

Jan 2025 – Feb 2025

Ride Karo | Internship

Islamabad, PAK | Remote

- Engineered an Intern Management System for **10+ active users**, streamlining onboarding, task tracking, and performance evaluation.
- Designed and enforced **JWT-based RBAC with 2+ admin levels**, eliminating unauthorized actions and securing role-based access.
- Built a real-time chat and task notification system using WebSockets with heartbeat pings and room-based logic, ensuring **100% task update visibility and 30% faster query resolution**.
- Implemented **automated schedulers with Node-cron** for deadline checks and overdue tasks, reducing manual workload by 60% and ensuring accurate records.

Skill Summary

Languages:	C++, Java, JavaScript, Python, jQuery
Frameworks:	Spring Core, Spring MVC, Spring Boot, Node.js, Express.js, React, Zustand
DBMS:	MySQL, Microsoft SQL Server, MongoDB, Supabase, PostgreSQL
DevOps:	Git, GitHub Actions, Docker, Kubernetes, Jenkins, Nginx, Vercel, Cloudflare
AI & Automations:	n8n, RAG, AI Integration, Model Training & Development, Agentic Engineering, UiPath
Developer Tools:	Figma, Postman, Jira, GitHub, Anti-Gravity, Cursor, OpenClaw, Azure Document Intelligence

Intercultural & International Experience

- Selected for the **METI Internship Program (Japan)** in IT and AI 2025, a fully funded international initiative by Japan's Ministry of Economy, Trade, and Industry, with 50 participants selected worldwide from ~14,000 applicants, and only two representatives from Pakistan, including myself.
- Worked onsite in a **multicultural, international environment** for 50 days, completing formal training in intercultural collaboration, compliance, and Japanese business culture, and collaborating with peers from Asia, Africa, and Latin America.