

# AHMED KABIR ALAM

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## SUMMARY

**Senior Backend Engineer** with 12+ years of experience thriving in the end-to-end development lifecycle from analysis and architecture to hands-on development and production deployment. Delivered enterprise-grade Windows and web applications on multi-tier architectures. Deep expertise in C#, ASP.NET Core (MVC/Web API), and SQL Server; additional proficiency in Python. Proven track record building secure, scalable REST APIs and data-intensive services with strong performance, reliability, and maintainability. DevOps oriented source control, CI/CD, test automation implemented while continuously expanding capabilities in Artificial Intelligence (AI) including Generative AI and AI Agents with a strong interest in applying these to deliver production-ready solutions.

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## SKILLS

**Languages & Frameworks:** C#, .NET (.NET Core, ASP.NET MVC/Web API), Python, TypeScript, Node.js

**Python Stack:** python3, pip, FastAPI, Django, Django REST Framework (DRF), Flask, pandas, NumPy, pyodbc, openpyxl, SQLAlchemy, Celery (task queues), schedule, multiprocessing, threading, requests, httpx, BeautifulSoup, Selenium, JSON/XML APIs, virtualenv, pipenv, logging, configparser, pytest, Pydantic, reportlab

**Python Tools & Libraries:** aiohttp, matplotlib, seaborn, typing, dataclasses, Jinja2

**Microsoft Stack:** ADO.NET, WPF, WCF, LINQ, Windows Forms, Web Forms, N-tier apps

**Front-End:** HTML5, CSS3, JavaScript, TypeScript, AJAX, JSON, jQuery, Bootstrap, Tailwind CSS, Angular, Vue.js

**Full-Stack Framework:** React, Next.js, Vue.js

**Databases:** SQL Server, MySQL, MongoDB, PostgreSQL, T-SQL (queries, SPs, functions, triggers)

**ORM:** Entity Framework (Code-First & Database-First), EF Core, LINQ

**APIs & Integration:** RESTful services with JWT/Token-Based Authentication APIs

**Reporting:** Crystal Reports, SSRS, Power BI

**DevOps & Cloud:** TFS, Git/GitHub/GitLab, CI/CD, Docker, Kubernetes, GCP Server, Azure Server, Repos, Agents, Pipelines, Deployment Groups

**ERP & SAP:** SAP Business One (Service Layer, HANA Studio, Data Transfer Workbench)

**QA & Testing:** xUnit, Selenium, Unit/Integration testing

**Testing:** Selenium auto browser testing; xUnit Test Application, Locust (python based), Faker (test data generation)

**Analytics:** Google Analytics, Power BI (Desktop/Service)

**Database Design Tools:** SQL Server Management Studio, EMS Manager, MySQL Workbench, Azure Studio

**Windows Tools:** PowerShell scripts

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## EDUCATION

**B.S. Computer Science** - Federal Urdu University (2010)

**Intermediate (HSC)** - Govt. National College (2005)

**Matriculation (SSC)** - Brilliant Career School (2003)

## EXPERIENCE

**Dar Al Ber Society** - Feb 2020 - Present - Dubai, UAE

*Development Team Lead*

### **Key Achievements:**

- Led modernization of multiple charity-focused web systems including donation management, Zakat automation, and online payment portals.
- Designed and implemented RESTful APIs for mobile and web platforms handling over 5,000 concurrent users daily.
- Built and deployed Worker Services in .NET Core for automated integrations between SAP Business One, Telr, and digital Dubai payment gateways.
- Implemented CI/CD pipelines in Azure DevOps and automated deployments to IIS and Docker containers.
- Led a team of developers and coordinated with stakeholders for project planning, architecture design, and sprint delivery.
- Introduced application logging and monitoring systems using Serilog, Grafana for dashboard.

### **Developed following systems:**

- **DABS Dashboard** – centralized analytics & operations
- **Payment Order System** – multi-level approval workflow
- **Project Management System**
- **Customer Service Application**
- **Kiosk Payment Integration** – SAP sync and reconciliation
- **Recurring Payment Solution** – weekly or monthly deduction by using webhook
- **Digital Coupon System**
- **Telr & E-Pay Integration** – seamless online payment workflows integrated with SAP
- **Apple Pay Integration** – direct payment deduction with double tap easy processing
- **SAP Business One Integration** – financial transactions
- **AI Tools** – Exploring automation and AI integration using **n8n** workflow automation
- **Microsoft Graph Integration** – read and synchronize live **Excel (Office 365)** data handling
- **Python Automation Suite** – ETL jobs, data cleaning, financial transaction cross-checks, and rest APIs using FastAPI, pandas, Celery, schedule, and pytest

### **Python-Based Data Reporting & Automation Applications:**

- Performed data analysis and reporting in Python with pandas, NumPy, and openpyxl to identify mismatches and generate reconciliation summaries.

- Connected to SAP S/4HANA and SQL Server databases using pyodbc and SQLAlchemy for data extraction, reconciliation, and audit validation of financial transactions.
- Developed internal automation APIs with FastAPI for real-time data sync and monitoring between Database, Treasury System, and SAP.
- Built scheduled ETL pipelines and Excel/PDF report generators using Celery, schedule, and reportlab.
- Implemented automated testing and validation with pytest and Pydantic models.
- Used Jupyter Notebooks for ad-hoc analysis, visualization, and proof-of-concept automation scripts.

**Python Environment & Tools Used:** Python3, FastAPI, pandas, NumPy, SQLAlchemy, Celery, schedule, pyodbc, openpyxl, pytest, Pydantic, Jupyter, virtualenv, logging, configparser

**INAXUS Pvt Ltd** - Feb 2018 to Jan 2020 - Dubai, UAE

*Senior Software Engineer*

#### **Key Achievements:**

- Worked on a SaaS-based Construction Management Platform (INAXUS Site) used by contractors, consultants, and owners for end-to-end project documentation, inspections, and handover.
- Maintained and enhanced core .NET MVC applications and APIs ensuring high availability and performance for global clients.
- Developed and customized major modules including BOQ Cost, Document Management, and Email/Correspondence.
- Improved overall application performance and maintainability through code refactoring, SQL query optimization, and modular architecture updates.
- Collaborated with cross-functional teams across UAE, Philippines, and Pakistan to deliver new product features and resolve production issues.
- Participated in UI/UX improvements, enhancing usability for engineers and site inspectors.
- Implemented email notification workflows and document version tracking for better audit and compliance.
- Collaborated closely with project managers, QA engineers, and frontend developers to ensure smooth sprint delivery and alignment with client requirements.
- Contributed to technical documentation, module specifications, and knowledge sharing to streamline onboarding for new developers.
- Supported client demonstrations and post-release troubleshooting, ensuring high customer satisfaction.

#### **Developed and Enhanced Modules:**

- **Document Management** – centralized storage, versioning, and access control
- **Email and Correspondence Module** – project communication and approval routing
- **Cost Module** – Bill of Quantities and Cost management
- **Inspection Requests** – create, assign, and track on-site inspections
- **Dashboard & Reports** – project performance analytics and progress tracking

**DMS Research Pvt Ltd** - Feb 2015 to Jan 2018 - Karachi, Pakistan

*Senior Full Stack Developer*

**Key Achievements:**

- Led the development of eCommerce platforms with complete merchant and admin panels.
- Designed and implemented a price comparison engine based website aggregating data from multiple online stores to help users find the best deals across categories.
- Built robust data scraping and synchronization scripts to update prices, product images, and availability in real time.
- Implemented REST APIs in DRF for product catalog, orders, and merchant dashboards.
- Created automated reporting and analytics for sales trends and product performance.
- Collaborated with UI designers and marketing teams to ensure seamless user experience and SEO optimization.
- Managed Linux-based centos operating system hosting environments, domains, and MySQL database tuning for improved site performance.

**Developed Systems:**

- **PriceBlaze.pk** – eCommerce price comparison engine fully python based used Django framework
- **Merchant & Admin Panels** – multi-role dashboards for sellers and site administrators
- **Product Catalog & Inventory System** – automated SKU management and availability tracking
- **Ecommerce Application** – online authorize.net checkout and confirmation workflows
- **CMS-based Websites** – WordPress and OpenCart platforms with custom plugins and themes
- **Postgres database** – Developed full ERD diagram from scratch

**Digital Globe Services** - Apr 2012 to Feb 2015 - Karachi, Pakistan

*Principal Software Engineer*

**Key Achievements:**

- Developed and maintained business and telecom websites such as Weather Nation, TNT, and AT&T
- Integrated multiple third-party APIs for lead capture, order processing, and marketing automation.
- Built dynamic landing pages and web applications aligned with telecom marketing campaigns.
- Worked on WordPress (Genesis Framework) for microsites and SEO-optimized content pages.
- Collaborated with the marketing team to implement conversion tracking and analytics reporting.
- Worked with **international teams** across multiple time zones to coordinate releases and manage production deployments.

**Developed Systems:**

- **DGS World Website** – corporate website
- **TNT & AT&T Portals** – telecom product landing and order pages with API integrations
- **Lead Management Module** – captured, validated, and routed online leads
- **Campaign Microsites** – SEO-friendly, fast-loading promotional pages
- **WordPress Sites** – content and blog management with Genesis customization

**Nybble Tech** - Mar 2010 to Feb 2012 - Karachi, Pakistan

*Web Developer*

**Key Achievements:**

- Developed and delivered custom websites, CMS, shopping carts, and CRM applications.
- Designed and implemented database-driven solutions for client-specific requirements.
- Worked on multi-language support, improving accessibility and localization for global users.
- Gained strong foundation in software development life cycle, client communication, and technical documentation.

**Developed Systems:**

- **E-Commerce Websites** – product listings, shopping cart, and checkout modules
- **CRM Applications** – lead tracking and customer management
- **Content Management Systems (CMS)** – dynamic pages and admin control
- **Corporate Websites** – responsive business profiles with contact forms and analytics

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**ACHIEVEMENTS AND OBJECTIVE**

Delivered 100+ enterprise websites and web applications, including .NET- and Python-based APIs, ETL automations, and data processing solutions, most of which were successfully shipped to production. Skilled in driving legacy-to-modern migrations, integrating SAP Business One, and delivering secure, scalable backend systems.

Currently focusing on expanding expertise in Artificial Intelligence (AI) including LLMs, automation, and workflow integrations to build intelligent, data-driven applications that combine the power of .NET, Python, and AI for enterprise-grade solutions.

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**REFERENCES**

Professional references provided upon request.