

MD AZIZ

Backend & ML Engineer

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[GitHub](#) . [LinkedIn](#) . [Play Store \(Daily Hisab\)](#)

Career Objective

Seeking a challenging Backend/ML Engineering role at a product-driven company to architect scalable, AI-Powered systems and drive innovation through intelligent automation.

Professional Summary

Backend & ML Engineer with ~5 years of experience building and optimizing scalable SaaS platforms and AI-integrated systems. Specialized in **Python (FastAPI, Flask)** and **PHP (Laravel, CodeIgniter)** for backend APIs, with strong expertise in **system design, performance tuning, and cloud deployment**.

Developed **FastAPI middleware** to offload heavy PHP workloads, improving performance by 40%. Passionate about creating **intelligent, high-performance systems** that merge backend engineering with modern AI automation.

Core Skills

Languages: Python, PHP, JavaScript

Frameworks: FastAPI, Flask, Laravel, CodeIgniter, Next.js

Databases: MySQL, PostgreSQL, MongoDB, Firebase

Cloud & Tools: AWS, DigitalOcean, Docker, Git, Linux, Postman

AI/ML: NLP (BERT, Sentence Transformers), TensorFlow, Sentiment Analysis, Agentic AI

System Design: REST APIs, SaaS Architecture, Microservices, Secure Backend Development

Professional Experience

Skoodle Learning Pvt Ltd, Bengaluru - Full Stack Developer | Sept 2023 - Present

- Architected SaaS-based systems (Admissions, Curriculum, Inventory, Cafeteria) integrating PHP + Python (FastAPI) middleware.
 - Built a **FastAPI middleware layer** to handle heavy asynchronous tasks, reducing PHP server load by **40%**.
 - Integrated **NLP models** into the ticketing workflow for duplicate and sentiment detection, cutting manual review time by **30%**.
 - Designed a **Global Menu Permission System** using hybrid file-DB architecture to boost performance.
 - Mentored **4 developers** in modular architecture and system scalability best practices.
 - Implemented **SOLID principles** to improve maintainability and long-term scalability.
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Attractive Web Solutions, Delhi - Full Stack Developer | Feb 2021 - Aug 2023

- Built **CRM, E-Commerce, and Portal systems** using Laravel and CodeIgniter with RESTful APIs.

- Reduced API response times by **30%** via SQL optimization and caching mechanisms.
 - Automated **deployment pipelines**, reducing production downtime by **25%**.
 - Strengthened **backend security**, monitoring, and version control for multiple client environments.
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Key Projects

- **SafeNet Guardian (Ongoing):** AI-driven web safety platform using FastAPI + Next.js + MySQL with NLP for harmful content detection.
 - **Daily Hisab App:** Personal finance manager with **10K+ downloads (4.3★)** built using Python(FastAPI) and Flutter (frontend).
 - **Dog Vision Classifier:** TensorFlow CNN model achieving **90% accuracy** in dog breed classification.
 - **Sentiment Analyzer:** Domain-specific NLP model classifying text into positive, negative, or neutral sentiments.
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Education

- **MCA (2024 - 2026)** — Manipal University
 - **BCA (2021 - 2024)** — Manipal University
 - **Diploma in Networking (2018 - 2020)** — Jetking
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Certifications

- **AI & Machine Learning Bootcamp** - Daniel Bourke (Udemy, 2024)
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Additional Highlights

- Actively solving **DSA problems** on LeetCode & HackerRank.
- Strong mentoring experience in API optimization and architecture design.
- Interests: **AI-driven backend systems**, cybersecurity, and real-time architectures.