

# Azhar Hussain Khan

Full-Stack Developer | Scalable Systems | React, FastAPI, Kafka | Agile Practitioner

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## Summary

Full-Stack Developer with 4.5 years of experience building scalable backend systems and modern frontend applications. Proficient in FastAPI, Kafka, PostgreSQL, and distributed architectures. Skilled in developing microservices, designing RESTful APIs, and working in Agile environments with a focus on performance and reliability.

## Experience

**Full-Stack Developer** 2024-02 – Present

Polaris Smart Metering , Gurgaon, India (On-site)

Leading smart metering platform development. Built MDMS frontend and co-architected high-throughput backend with PySpark and Kafka. Reduced frontend load time by 30% and boosted team velocity by 25% via Agile practices.

**Full-Stack Developer** 2021-05 – 2024-02

Ornaz , Gurgaon, India (On-site)

Delivered full e-commerce platform across web and mobile. Led frontend in React/Next.js/Expo, contributed Django microservices, and integrated RESTful APIs. Collaborated in Agile teams, optimized UI performance, and built ML-driven try-on features.

**Web Developer Intern** 2020-09 – 2021-03

KAP Info Solutions , Chandigarh, India (On-site)

Internship focused on core web dev with exposure to Python, Pandas, and data workflows.

## Projects

**Full-Stack Developer (Polaris Grids)** Current

- Built a scalable **VEE Engine** (Validation, Estimation, Editing) processing 20M+ smart meter records/day using Kafka, Redis, PostgreSQL, PySpark, and Async Python; improved data processing speed by 40%
- Led a team of 5+ engineers to architect and build a secure, unified React frontend with granular **RBAC** and OAuth2.0 for multi-role access across utilities
- Deployed modular microservices with FastAPI, Docker, and AWS (EC2, S3, Lambda), interconnected via Kafka event streams
- Improved backend system reliability and performance with optimized PySpark jobs and asynchronous I/O pipelines
- Integrated 10+ enterprise services into the MDMS platform to unify validation, estimation, editing, and reporting under one system

**Full-Stack Developer (Ornaz)** 3 years

- Developed a cross-platform e-commerce solution using React, Next.js, and React Native, optimized for mobile and desktop, improving load times by 30%
- Built a virtual try-on experience for diamond rings using **MediaPipe** and WebAssembly for real-time hand tracking
- Engineered Django-based microservices with Celery and Redis for order, cart, and lead workflows, ensuring 99.9% uptime
- Secured dashboards with role-based access controls and integrated OAuth2-secured REST APIs
- Automated scraping of competitor catalogs using Selenium to provide dynamic pricing insights for marketing teams

## Skills

Python

FastAPI

Django

React

Next.js

React Native

TypeScript

PostgreSQL

Kafka

PySpark

Redis

Docker

AWS EC2

AWS S3

AWS Lambda

Git

CI/CD

Async Programming

RESTful APIs

Microservices

RBAC

OAuth & JWT Auth

Agile Methodologies

System Design

MediaPipe

Selenium

Expo

Webpack

Service Workers

## Education

**B.Tech in Computer Science** 2016 – 2020

Punjab Technical University, IK Gujral