

# Mohammed Khalid Shaik

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Backend-leaning application engineer with 5+ years building Python services, REST APIs, CLI workflows, and customer-facing platforms across web, backend, and data systems. Built an asynchronous eight-endpoint API that cut processing time 97%, designed a React-backed Kubernetes service supporting about 1,000 concurrent users at 99.9% availability, and contributed production testing and CI safeguards to a multi-contributor platform.

## Skills

**Programming Languages:** Python | Bash | SQL  
**Frameworks & APIs:** FastAPI | React | Material UI | REST APIs | WebSocket | OpenAPI/Swagger  
**Architecture & Distributed Systems:** service architecture | API design | async processing | workflow orchestration | state reconciliation | concurrent execution  
**Data Engineering:** Apache Airflow | APScheduler | PostgreSQL | pgvector | pandas  
**Testing & Quality:** pytest | unit testing | integration testing | end-to-end testing | AST static analysis  
**Cloud & DevOps:** Git | Docker | Kubernetes | AWS | Linux  
**Security & Compliance:** bearer-token authentication | access control | audit logging | integrity verification

## Experience

**Integrated Analytics Solutions** 06/2026 - Present  
Production LLM Agent Runtime

- Contribute to a production application platform spanning FastAPI REST/WebSocket services, PostgreSQL/pgvector, a non-interactive CLI, and more than 100 model providers; the team shipped 71 endpoints and 5,900+ tests in under four months.
- Built YAML write-safety, canonical-hash trust verification, configurable memory controls, the CLI exit-code contract, and an AST-based CI check that blocks stub implementations; maintained corresponding design and requirements documentation through version-controlled Git changes.

REST/WebSocket APIs, PostgreSQL/pgvector, pytest, Git

**Takeda** 07/2025 - 07/2026  
Enterprise Conversion API

- Built an eight-endpoint FastAPI service with bearer-token sessions, isolated storage, file-integrity checks, asynchronous processing, polling, and explicit error contracts for concurrent enterprise workflows.
- Cut document processing time 97%, from more than 15 minutes to under 30 seconds per file, while supporting about 1,000 active users and 100 concurrent sessions with zero cross-session data leakage incidents.

asyncio, pytest, OpenAPI/Swagger

**Integrated Analytics Solutions** 05/2023 - 03/2025  
Managed Analytics Platform

- Designed a Python service with React and Material UI support that reconciled database requests with Kubernetes, managing the full lifecycle of isolated SAS Studio pods and services through explicit operational states.
- Reduced secure provisioning from days to minutes while supporting about 1,000 concurrent users at 99.9% availability through scheduled reconciliation, access controls, audit-focused operations, and failure-state handling.
- Supported managed analytics adoption across four pharmaceutical client contracts.

Material UI, Docker, APScheduler

**GameStop** 09/2022 - 05/2023  
Promotion Approval Workflow

- Built an Apache Airflow- and API-integrated approval workflow with database-backed tracking and dashboards, reducing team effort 80% and saving about \$200K per month while improving controls around promotion-duration limits.

SQL, Apache Airflow, REST APIs, workflow automation

## Education

**Master’s in Data Science** | University of Texas at Arlington | 2022  
**Post Graduate Diploma in Data Science** | INSOFE (CMU-accredited) | 2020  
**Machine Learning** (Andrew Ng) | Stanford Online | 2019