# Mohammed Khaleel Khan *Python Developer*

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📍 Bangalore, karnataka

## Profile

Backend Developer with 4.5 years of experience in building scalable web applications using **Python**, **Django** , **Django REST API**, and **Flask**. Skilled in the full software development lifecycle, **Object-Oriented Programming**, and **database design** across **MySQL** and **PostgreSQL**. Experience in **version control tools** like **Git**, familiar with **Docker** and **Jenkins**. Experienced in **Agile** and **Scrum methodologies**, with a track record of developing business-critical systems and expertise in **Python IDEs** such as **PyCharm** and **Visual Studio Code**.

## Skills

**Programming Language :**
Python

**Databases :**
MySQL | PostgreSQL | MongoDB |

**Version Control & Automation :**
GIT | GitLab | Bitbucket

**Libraries :**
Requests | Pandas | NumPy | Boto3

**Frame Works :**
Flask | Django | RestFul Services | Fast API

**Cloud Services :**
AWS Lambda | EC2 | S3 | CloudWatch | CloudFormation | AWS IAM | AWS Batch

**Project Management :**
Docker | Postman | Jira | Jenkins | Swagger

## Professional Experience

06/2025 – 08/2025
Pune, Maharashtra, India

**Python Developer**
*i-Source Infosystems*
Currently working as Python Developer on Pyxd magic project in i-source Infosystems

03/2023 – 12/2024
Bangalore, Karnataka, India

**Python Developer**
*Atos Global IT Solutions*
Currently Working as Software Engineer in Atos Global IT Solutions, Bangalore

06/2020 – 02/2023
Bangalore, Karnataka, India

**Associate Software Engineer**
*Ness Technologies*
Worked as Associate Engineer in Ness Technologies, Bangalore

## Projects

06/2025 – Present

**PYXD MAGIC**
**Project :** Pyxd Magic - A cloud-native backend system built on AWS Lambda.

***Tools :*** Python | AWS Lambda | AWS API Gateway | AWS Batch | Docker | AWS SAM (Serverless Application Model)
**Project Role :** Python Developer
**Description:**
Pyxd Magic is a cloud-native backend system designed to automate customer lifecycle management, billing workflows, and reporting by integrating AWS services with Zoho CRM and Zoho Billing. The platform leverages **AWS Lambda** for business logic, **API Gateway** for exposing secure endpoints, and **Cognito** for user authentication. Customer and transactional data is persisted in **PostgreSQL/MySQL**, with scheduled jobs and email notifications handled via **AWS EventBridge** and **SES**.

The project includes containerized machine learning pipelines using **Docker** and **AWS Batch** for scalable processing. Infrastructure and deployment are fully automated using **AWS SAM** and **GitLab CI/CD**. Testing is handled through custom Python scripts, ensuring robust integration and data flow between Zoho services and AWS components.

**Roles and Responsibilities:**
- **Integrated Zoho CRM and Zoho Billing (OAuth 2.0):**

Implemented secure and scalable communication between AWS Lambda and Zoho CRM/Billing services for customer and billing data sync.

- **Data Reporting & Persistence:** Designed and implemented logic to capture and persist report data from CRM into PostgreSQL using Python Lambda functions.
- **API Refactoring & Optimization:** Refactored existing AWS API Gateway endpoints and Lambda functions to improve performance, reduce cold starts, and follow modular architecture.
- **Persist API Tuning :** Profiled and optimized critical persist APIs for better data throughput, reduced latency, and improved error handling using AWS CloudWatch.
- **AWS Batch-based ML Integration :** Developed and containerized machine learning workflows using **Docker**, integrated with **AWS Batch**, for scalable asynchronous processing.
- Developed a **cloud-native backend system** using **Python** and **AWS Lambda** framework, deployed via **AWS SAM CLI**.
- Designed and implemented **separation of APIs** and deployed them to **API Gateway** using YAML-based Infrastructure as Code.
- Integrated with **Zoho CRM** via **Boto3** for automation and data sync.
- Worked with **AWS Fargate** and **EC2 AWS Batch** to invoke and manage ML processing instances.

03/2023 – 12/2024

**Policy Insurance**
**Project** : Policy Insurance

**<u>Tools</u>** : Python | Django | PostgreSQL | Docker | AWS S3 | Jenkins | Agile | Linux

**<u>Description</u>** :
The Policy Insurance project involved the development and maintenance of insurance policy management systems for Country Financial.
The system was built using Python and Flask, with integration of REST APIs, Docker, and PostgreSQL. The goal was to streamline the management of insurance policies, enhance system performance, and improve user experience through reliable backend services.
**<u>Roles and Resbonsibilities</u>** :
Development & Integration: Developed and maintained insurance policy management systems using Python, Django , REST APIs.

- Integrated the system with Docker for containerization, Apache Kafka for real-time data streaming, and PostgreSQL for database management.
- Led development, enhancement, and issue resolution within an Agile framework.
- Conducted unit, integration, and user acceptance testing (UAT) to ensure software reliability and functionality.
- Extensively used JIRA for project tracking and participated in Scrum meetings to coordinate with the development team.
- Version Control & Documentation:
- Managed code repositories using GIT and Bitbucket for version control. Created and maintained comprehensive project documentation related to testing, coding, and process logic.
- Managed full-cycle development, including design, bug fixing, impact analysis, and production support.

06/2020 – 02/2023

**Online Learning Management System (LMS)**
**Project 1** : Online Learning Management System (LMS)

**Tools** : Python | Django | MySQL | HTML | JavaScript (React) | AWS S3

**Project Role**: Associate Developer (Python)

**Description**:
An LMS that allows educators to create, manage, and distribute online courses, quizzes, assignments, and certifications. Students can track their progress, attend live sessions, and access materials. Admins manage users, content, and reports.
**Roles and Responsibilities** :

- Build features for course creation, student enrollment, and assignment submission using Django.
- Build features for course creation, student enrollment, and assignment submission using Django.
- Implement secure authentication, user registration, and role-based access (admin, instructor, student).
- Integrate AWS S3 for video content and document storage.
- Implement functionality to track student progress through courses and generate certificates.
- Develop the student dashboard where users can track their progress, view enrolled courses, see upcoming assignments or quizzes, and access learning materials.
- Implement real-time notifications for course updates, deadlines, or new content uploads.
- Create progress tracking mechanisms, including visualizations like progress bars or checklists for course completion.
- Build the functionality for creating and managing different types of assessments (e.g., Multiple-choice questions, short answers).

## Education

**Bachelor of Engineer(Information Science Technology)**
*SSInternational University*

**PUC**
*SDMCS PU College*

**SSLC**
*St Anne's Higher Primary School*

## Declaration

I hereby declare that the information provided above is true to the best of my knowledge and belief.

**Mohammed Khaleel Khan**
Bangalore