# Hafiz Muhammad Ali Saeed

As a skilled Software Engineer, I specialize in creating high-quality applications and various modern frameworks for web development. My expertise includes backend development with Node js Python, FastAPI, where I integrate advanced APIs, including OpenAI and other large language models (LLMs) through Langchain and Python, to enhance application functionality and user experience. I am proficient in Python and TypeScript and have experience with database management and version control using Git

### Software Engineer (Full Stack)

### Germany

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## Education

- Otto-Friedrich-Universität **Germany, MSc international-Software-Systems-Science,** 2024 ~ Present

- Ilma University, Bachelor of Science **BS & Software Engineering,** 2015 ~ 2019

## Skills

### Front End Development

- Java Script
- Typescript
- React.js
- React Native
- Next.Js
- Redux
- Material UI
- Tailwind Css

### Back End/Server side

- Python
- Pytorch
- Scikit Learn
- Seaborn
- Matplotlib
- Numpy
- Pandas
- FastAPI
- Langchain
- LangGraph
- LLMs
- LLM Fine Tuning
- Multi-Agent AI Systems
- Large Language Models (LLMs)
- AI Agent Development
- Vector Databases
- Retrieval-Augmented Generation(RAG) Pipelines
- Custom GPT
- VLMs
- Machine Learning
- Node.js,
- Express.js,

### Others

- Github
- REST
- Agile Methodlogy
- MSSQL
- PostgreSQL
- Cypress JS
- ision language models
- MediaSoup
- Docker
- kubernetes
- Web RTC
- Strapi
- Amazon Web Services.
- Linux
- AWS CDK
- Microservices
- Computer Science
- Information Technology
- Computer Vision.
- Tensorflow

# Work Experience

**Best Secret GmbH, Working Student (2024–Present)**
**Machine Learning & AI Development**

- **Fraud Detection Modeling:** Developed and trained machine learning models to identify fraudulent patterns in transactional and behavioral data, utilizing classification, anomaly detection, and time series techniques.
- **End-to-End ML Pipelines:** Built robust pipelines for data ingestion, preprocessing, feature engineering, model training, evaluation, and deployment, tailored for fraud risk analysis.
- **Data Exploration & Feature Engineering:** Analyzed large-scale structured and unstructured data to extract meaningful fraud indicators, using statistical techniques and domain knowledge to enhance model accuracy.
- **Tooling & Infrastructure**: Used Python (Pandas, Scikit-learn, XGBoost), SQL,
- **Collaboration & Communication:** Partnered with fraud investigation teams to understand domain-specific fraud scenarios and present actionable insights through visualizations and data dashboards.

## iTitans, Software Engineer **(2023~2024)**

- **Full-Stack Development**: Led the development and deployment of web and mobile applications using technologies like FastAPIs, React.js, Next.js,, PostgreSQL, and Node.js.
- **Integration of AI and Machine Learning**: Integrated OpenAI into existing ERP systems to automate communication, lead generation, and quotation processes.
- **Cloud Solutions**: Worked with cloud infrastructure (AWS, Docker, Kubernetes) to scale applications and ensure optimal performance.
- **Collaboration and Team Leadership**: Coordinated with cross-functional teams to manage agile workflows, including mentoring junior developers and conducting code reviews.
- **API Development**: Designed and optimized REST APIs for web services and ERP systems.
- **System Security**: Implemented DevOps best practices and enhanced security for high-sensitivity environments.

## Arçelik Global, Software Engineer  **(2021~2023)**

- Developed and maintained web applications using React.js, Next.js, TypeScript, and Material UI.
-  Collaborated with backend teams to integrate APIs and ensure seamless communication between frontend and backend systems.
- Enhanced application performance and responsiveness to improve user experience across devices.
- Implemented state management solutions using Redux for better data flow and application scalability.
- Optimized web applications for speed and accessibility, adhering to modern web standards.
- Designed and built reusable UI components, improving development efficiency and consistency.
- Debugged and resolved frontend issues, ensuring smooth functionality and minimal downtime.
- Worked in an Agile environment, participating in sprints, code reviews, and team meetings to ensure timely project delivery.

## Finosys Pvt Ltd, Full Stack Developer **(2019 ~2021)**

- Developed full-stack applications using the MERN stack (MongoDB, Express.js, React, Node.js,PostgreSQL) for various business needs.
- Assisted in building and maintaining scalable web applications with responsive user interfaces.
- Collaborated closely with senior developers to integrate front-end components with server-side logic.
- Contributed to the creation of RESTful APIs and optimized database queries for better performance.
- Participated in the testing and debugging process to ensure code quality and functionality.
- Supported the deployment of applications and provided ongoing maintenance and bug fixes.
- Engaged in Agile methodologies and worked in a collaborative team environment to meet project deadlines.

# Project Details

## AI/ML:

- **ChurchFlow**
    1. Developed an AI-powered Church Workflow System using **Python, FastAPI, LangChain, FAISS,** and **OpenAI GP**T models, focusing on AI-driven member engagement and personalized Bible study assistance.
    2. Implemented a secure **Retrieval-Augmented Generation (RAG) pipeline** for fast document retrieval with Elasticsearch, and integrated AI tools for content creation, sermon analysis, and new member onboarding.
    3. Ensured **API security, scalability**, and seamless interaction through a **React.js** frontend, offering a modern, comprehensive solution for church operations and leadership support.

- **Web & Server Side (Node/FastAPI/React/MongoDB/MSSQL/PostgreSQL)**
    - Provident Fund App of Engro Corp
    - Inventory Management System Of Royal Canadian Steel Inc
    - Orange Tree Foundation (Complete Student and Alumni Management App)
    - Inventory Management System Of CBM Plastics )
    - Arfeen logistics
    - https://cercahomes.com/
    - Grid Gaming Paltform
    - Restaurant / Food App (Rest Api with MongoDb)
    - Orange Tree Foundation system with Node js and MsSQl
    - Provident Fund App of Engro Corp. with Node js and MsSQl
    - Paypal Rest SDK Integration
    - Webrtc Media Server Intergration Using Mediasopu SFU(Postgree SQL)

## Mobile Apps(IOS/Android)

- **Wepoc (Messenger App, webRtc):** Wepoc is a free, multiplatform messaging app based on **webrtc** that lets you make video , voice calls and screen sharing in mobile app, send text messages, and more — all with just a Wi-Fi connection.
- **Western Spirit (Android TV App):** The Application Provide the slide show of the videos and Images that are coming from API's and turn itself on automatically on when device is switch on.
- **Inspectify (The Home Inspection):** The Application Provide the service to enter complete home inspection detail.
- **Pisona (The Hotel Booking App )** : The Application allows users from different countries to book the hotels with best rates in Thailand
- **Farmacia Monserrate** (Android /IOS React Native): A Commerce app of pharmacy Products

## Live Apps in Apple & Play Store

https://play.google.com/store/apps/details?id=com.goldhoffer