

# Abdel-Rahman Saied

Senior Software Engineer

## Personal information

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## Professional Summary

With over 3 years of experience in the software industry, I specialize in building scalable, robust backend systems using Python and Django. I have successfully led the development of critical applications, improving system performance by up to 30%. My expertise in DevOps and cloud technologies has optimized CI/CD pipelines, reducing deployment time by 40%. As a team lead, I focus on aligning development practices with organizational goals, ensuring smooth project execution and improved system reliability.

## Education

- Bachelor's degree of Computer Science – Higher Technological Institute
  - Graduated with an **A+** in my final project and an overall **good** grade.

## Professional Experience

### Senior Software Engineer – Software Team Lead, ASAS IT

August 2024 – Present

- Led the development of Twiscope, a real-time OSINT data analytics platform, which processed over 2 million data points daily, enabling real-time notifications and actionable insights for users.
- Architected and developed scalable backend services for **Twiscope**, leveraging modern frameworks and cloud infrastructure to support real-time notifications and data processing.
- Designed and implemented APIs that facilitate efficient data retrieval, processing, and real-time communication between multiple system components.
- Worked closely with data scientists and analysts to integrate machine learning models for data analysis and trend prediction within the **Twiscope** platform.
- Optimized Twiscope's data handling, reducing latency by 25% and enhancing throughput to handle over 5 million daily data points..
- Provided technical leadership and mentoring to the development team, focusing on improving the overall performance, scalability, and security of the platform.
- Collaborated with stakeholders to define product requirements and delivery schedules for key **Twiscope** features, improving user engagement and operational efficiency.

### Senior Software Engineer – Python Developer, ASAS IT

August 2023 – August 2024

- Spearhead development of advanced Python applications, emphasizing scalable backend solutions.
- Implement cutting-edge features and optimize system performance to support enterprise-level services.
- Collaborate with cross-disciplinary teams to align project objectives with business goals, ensuring timely delivery and high-quality software products.

## Software Engineer – Backend Developer, ClouDev-Solutions

September 2022 – July 2023

- Focused on backend development for cloud-based applications, enhancing functionality and user experience.
- Utilized modern APIs and server-side logic to improve data integration and streamline workflows.
- Contributed to the maintenance and debugging of existing software, significantly reducing system downtimes.

## Software Engineer, Prime Consulting Office (PCO)

November 2022 – October 2023

- Developed and maintained software solutions tailored to client specifications, enhancing operational efficiency.
- Engaged in continuous learning to apply up-to-date technologies and methodologies in project execution.

## Software Engineer – Desktop Application Developer, Co-Source

August 2020 – May 2022

- Led the design and development of desktop applications, focusing on robustness and user-friendly interfaces.
- Managed the full software development lifecycle, from conception to deployment, ensuring adherence to best practices and client satisfaction.

## Highlighted Projects

### Twiscope

- **Description:** A real-time data analytics platform designed to gather, process, and visualize open-source intelligence (OSINT) from all social media platforms, with advanced capabilities for X (formerly Twitter).
- **Challenges & Solutions:** Developed to handle high volumes of data from multiple sources with minimal latency. Utilized Python, Django, Celery, Redis, and AWS for efficient data processing and real-time notifications.
- **Impact:** Improved decision-making efficiency by 30%, processing over 5 million data points daily across social platforms, with a 99.9% uptime.

You can find more information about Twiscope on their official website [here](#).

### Deep Linkup Platform

- **Description:** A platform that enables fast integration of machine learning models with APIs, supporting popular frameworks like TensorFlow and PyTorch.
- **Challenges & Solutions:** Created a modular architecture with FastAPI, Django, PostgreSQL, and Kubernetes, ensuring scalability and ease of use. Managed up to 100,000 API calls per day.
- **Impact:** Reduced API integration time for ML models by 50%, speeding up deployments for developers and data scientists.

### Gymawy App

- **Description:** A mobile fitness app that provides personalized workout plans, nutrition advice, and progress tracking. Trainers can design and assign plans, while trainees use AI analytics to track their progress.
- **Challenges & Solutions:** Developed the app with Flutter for a smooth cross-platform experience and Django Rest Framework for the backend, with Firebase for real-time updates.
- **Impact:** Increased user retention by 35%, reaching over 10,000 active users in 6 months, with highly personalized plans and real-time progress tracking.

Please review my projects on GitHub for a comprehensive view of my work. [GitHub](#)

## Technical Skills

- **Languages & Frameworks:**  
Python (Advanced), JavaScript (ES6+), Django, Django Rest Framework (DRF), Flask, FastAPI, Node.js, TypeScript (Intermediate), HTML5, CSS3, jQuery
- **Design Patterns & Architecture:**  
MVC, MVT, Object-Oriented Programming (OOP), SOLID principles, Microservices architecture, Event-driven architecture, Service-Oriented Architecture (SOA)
- **Testing & Debugging:**  
Unit Testing (PyTest, unittest), Integration Testing, TDD (Test-Driven Development), BDD (Behavior-Driven Development), Debugging (PDB, Chrome DevTools), CI/CD Pipelines (GitHub Actions, GitLab CI, Jenkins)
- **Version Control & Collaboration:**  
Git, GitHub, GitLab, Bitbucket, Branching Strategies (Git Flow), Pull Requests, Code Reviews, Continuous Integration (CI), Continuous Deployment (CD)
- **Backend Development:**  
RESTful APIs, GraphQL, Redis, Celery, Asynchronous Programming, WebSocket communication, SQL (PostgreSQL, MySQL), NoSQL (MongoDB, Firebase), ORM (Django ORM, SQLAlchemy)
- **Cloud & DevOps:**  
Docker, Kubernetes, Nginx, AWS (EC2, S3, RDS, Lambda), Google Cloud Platform (GCP), Microsoft Azure, Digital Ocean, Terraform (Infrastructure as Code), CI/CD Automation, Serverless architecture
- **Agile & Project Management:**  
Agile Methodologies (Scrum, Kanban), Sprint Planning, Retrospectives, Task Management Tools (Jira, Trello, ClickUp), User Story Creation, Project Roadmapping, Stakeholder Communication, Team Leadership & Mentoring
- **Data Mining & Web Scraping:**  
Selenium (Browser Automation), BeautifulSoup (HTML Parsing), Requests (HTTP Requests), Scrapy (Web Scraping Framework), Regular Expressions, API Data Extraction, Data Cleaning and Processing
- **Desktop & Cross-Platform Application Development:**  
Python PyQt5, PySide, Electron.js (for cross-platform desktop apps), GUI Development, Desktop Automation, Multithreading
- **Collaboration & Mentorship:**  
Team Leadership, Technical Mentorship, Conducting Code Reviews, Knowledge Sharing, Onboarding New Developers, Cross-functional Team Collaboration (with DevOps, QA, Designers), Agile Coach
- **Other Tools & Technologies:**  
Redis for Caching, Celery for Task Queuing, Elasticsearch for Full-Text Search, Postman for API Testing, Swagger/OpenAPI for API Documentation, Prometheus and Grafana for Monitoring

## Language

- **Arabic**, Native
- **English**, very good