# Abdelrahman Badran

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## EDUCATION

**German University in Cairo**                                                                            Cairo, Egypt
*Bachelor of Science in Software Engineering*                                          *August 2018 – May 2023*

**German University in Cairo**                                                                            Cairo, Egypt
*Master of Science in Artificial Intelligence (Focus on LLMs and Reasoning)*     *October 2023 – Present*

## EXPERIENCE

**Teaching Assistant and Researcher**                                               October 2023 – Present
*German University in Cairo*                                                                            *Cairo, Egypt*
- Prepare and deliver tutorials for courses such as Digital System Design and **Advanced Database Systems**
- Assist students with assignments, labs, and research projects

**Junior Backend Developer**                                                         June 2021 – January 2022
*ZYDA*                                                                                                    *Cairo, Egypt*
- Helped build and maintain **microservices** using **Django and Ruby on Rails**, responsible for third-party integrations
- Worked with RESTful APIs and implemented asynchronous communication using **RabbitMQ and Kafka**
- Automated testing and CI/CD pipelines using pytest, CircleCI, and GitHub Actions

## PROJECTS

**Bachelor Project - Data Preparation and Annotation Pipelines for NLP Tasks**
- Built an automated pipeline for Arabic language text analysis for NLP tasks, achieving state-of-the-art results.
- Focused on dialect identification and achieved promising results using the proposed pipeline

**Chat System** | *Golang, Ruby on Rails, Elasticsearch*
- Developed a chat system with a microservice architecture, handling efficient message creation and retrieval
- Integrated **Elasticsearch** for message searching, improving search performance.
- Utilized **Sidekiq and Redis** for managing asynchronous tasks, ensuring smooth handling of message queues.
- Designed and implemented **REST** APIs using Golang and Ruby on Rails for handling different services

## EXTRACURRICULAR ACTIVITIES & VOLUNTEER INVOLVEMENT

**Junior Teacher Assistant**                                                              Jan. 2020 – Apr. 2020
*German University in Cairo*
- Assisted first-year students during **Java** lab sessions focused on **Object-Oriented Programming (OOP)**, providing support and guidance
- Facilitated hands-on learning experiences, helping students improve their understanding of key programming concepts

**Participant, International Students Leadership Conference (ISLC)**           Jan. 2017 – Apr. 2018
*Cairo, Egypt*
- Attended 10 sessions focused on **leadership, self-development, and self-awareness**
- Participated in 10+ discussions on major philosophical topics, including **Epistemology and Metaphysics**

## TECHNICAL SKILLS

**Languages**: Python, Java, JavaScript, SQL (Postgres, MySQL), Ruby
**Frameworks**: Django, Ruby on Rails, ReactJS, Django Rest Framework, Node.js
**Tools**: Git, Docker, RabbitMQ, Apache Kafka, Celery, CircleCI, GitHub Actions
**Databases**: PostgreSQL, MySQL, MongoDB, Redis