

Ahmed ElSheikh

+39 327 218 0358 | aelsheikh13@gmail.com |  Rome, Italy |  |  | 

EXPERIENCE

Cyber ML Engineer [Full-Time]

Consulthink S.p.A

Rome, Italy

Mar 2022 – Present

- Lead a 2-member AI research team at Consulthink S.p.A, leveraging ML/DL techniques to enhance current security pipelines and provide clients with the highest level of cybersecurity
- Develop and implement robust security measures and hardening techniques for ML/DL models, ensuring the protection of sensitive data and preventing potential breaches in accordance with ISO 5338 & ISO 42001 standards.
- Utilize advanced XDR and NDR tools for network monitoring and threat analysis, proactively identifying and mitigating security risks to maintain the integrity of the network infrastructure
- Installation, Configuration and Maintenance of clients networks' infrastructure & Enterprise scale projects
- Manage and maintain Linux servers, optimizing their performance and reliability to ensure uninterrupted network operations, achieving a consistent uptime of over 95%.
- Developing multiple auxiliary tools aiding in NDR using Python, Docker
- Collaborate with cross-functional teams to develop and deploy innovative security solutions, staying up-to-date with the latest advancements in the field of cybersecurity.
- Maintain clear and concise documentation of security measures and procedures, facilitating knowledge transfer and ensuring compliance with industry standards.

Backend & NLP Engineer [Full-Time]

Screevo S.R.L

Rome, Italy

Nov 2021 – May 2022

- Implemented a voice-controlled web and desktop actions recorder using Python, PyAutoGUI, SeleniumBase, poetry.
- Managing a team of 2 juniors in the development of a voice-controlled mobile app (Flutter) and its backend (Python, MySQL, FastAPI) and Applied API hardening.
- Developing & deploying (on AWS) the backend for a voice automated desktop-based app via python, fastAPI & Uvicorn, as well as developing the UX of the conversation
- Developing the Speech-To-Text & Text-To-Speech modules using Python, PyTorch on AWS EC2 instance

NLP Engineer [Part-time]

MomentOne

London, UK

June 2021 – Nov 2021

- Building Data Acquisition and Processing Pipeline for our Chatbot using Python, HuggingFace, Rasa, Poetry
- Improved the current chatbot via incorporation of large language models using HuggingFace, Poetry, Python

NLP Engineer [Internship]

Outmind AI

Paris, France

June 2021 – Nov 2021

- Improved the company's semantic search engine product using Elasticsearch and Python
- Clustering of existing data and new documents using Scikit-learn and Python based on textual content using TF-IDF and semantical information using BERT (LLM) using AWS SageMaker
- Scraping the web for textual data using Scrapy and Python to fetch documents from the internet, building preprocessing pipeline using AWS Sagemaker

ML Engineer [Part-time]

AI Launchpad – Lyra

Rome, Italy

Mar 2019 – Aug 2019

- Implemented for a client Time series analysis and forecasting module(Sales, Risk, Churn) using Python, Prophet, Scikit-learn, Numpy, Pandas
- Sentiment Analysis using Python, Scikit-learn, Numpy, Pandas
- Designing and implementing of the UI/UX of the admin dashboard using Python, Python Dash

Full Stack Developer [Full-time]

Enterprise Consultancy Services ECS

Cairo, Egypt

Jun 2017 – Jul 2018

- Developed AFREXIM Bank's HR Portal using JS, basic web stack, Java
- Developed Online Cafeteria System using Java, SAP UI5, T-SQL
- Developed an Online Chatting Platform
- Revamped a Point-of-Sales system using C#, T-SQL

PUBLICATIONS

- [1] A. El Sheikh, M. Bevilacqua, and R. Navigli, “Integrating personalized pagerank into neural word sense disambiguation”, in *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing*, 2021, pp. 9092–9098.

EDUCATION

Sapienza University of Rome <i>M.Sc. Artificial Intelligence and Robotics (Final Score 107/110)</i>	Rome, Italy
The German University in Cairo <i>B.Sc. Mechatronics Engineering</i>	Cairo, Egypt

CERTIFICATES

1. Cisco Certified CyberOps Associate (CyberOps 200-201) | *Valid Until: Nov 2025*
2. Cisco Certified Networks Associate (CCNA) | *Preparing for the exam*

LANGUAGES

1. Italian | Professional
2. English | Fluent
3. Arabic | Mother-tongue

OPEN SOURCE CONTRIBUTIONS

- Currently contributing to [OWASP AI](#) as an author, focusing on writing & reviewing content related to AI Security Act.
- Contributed to [DeepOD](#), by enhancing the usability of the project by allowing users to seamlessly save and load models.
- Contributed to [SeleniumBase](#), by creating a desktop recorder example to add a GUI recording feature for users
- Contributed to [Transformers](#), Fixing a multiprocessor error on Windows OS when using Wav2Vec2 with LM