

Mohamed Elkamhawy

Principal ML Engineer at Atlassian – DevAI | UW Masters | Imagine Cup WW-Winner

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EXPERIENCE

[14+ Years of Experience]

Atlassian, Sr. Principal ML Engineer – Tech Lead Manager 2025 – Present

- Tech Lead Manager, [DevAI](#)
 - Leading technical development for AutoReview, including LLM fine-tuning, evaluation pipeline design, and model safety enhancements for automated code review.

Microsoft, Sr.Principal ML Engineer – Tech Lead Manager 2022 – 2025

- Tech Lead Manager - [Azure OpenAI / GitHub Copilot](#)
 - Spearheaded Responsible AI initiatives across Microsoft AI Platform, focusing on products such as GitHub Copilot and Bing Copilot.
 - Led IP/Copyrights Commitment at Microsoft, ensuring AI products adhere to legal and ethical standards.
 - Built and developed models to redact security vulnerabilities, detect malware, and redact PII data (including usernames) for GitHub Copilot, enhancing code safety and safeguarding against harmful code.
 - Directed benchmarking efforts for OpenAI models within Bing Copilot, ensuring top-tier performance and reliability.

Amazon, Senior ML Engineer, Seattle, WA 2017 – 2022

- [Amazon Lex, AWS Service:](#)
 - Designed & developed Conversations Generation & Utterance Expansion pipeline to expand customer utterances and build conversations around them on the fly within AWS minimum service build time.
 - Built Features Benchmarking platform for different variations of text and inject noisy data into training part: Typos, Synonyms, Morphological Variants, Contractions, Punctuations, and Emoji's.
 - Built an end-to-end AI data pipeline from Language Engineers to Scientists for creating datasets and ensure high quality.

Microsoft, ML Engineer, Redmond, WA 2014 – 2017

- [HDInsight:](#)
 - Built Spark from scratch on top of Windows Azure.
 - Integrated [Jupyter Notebooks](#) in Azure HDInsight Clusters with adding special Magic commands.
 - Built KPI Dashboard for Spark service running clusters with focus on SLA that was shared weekly with Azure EVP.
 - Performed different performance tests (e.g. TeraSort) for Azure Spark clusters which got featured in [Gartner report](#).
- [Windows 10/](#) Microsoft Office:
 - Designed & developed Incremental Clustering solution for millions of daily feedback data for Windows 10.
 - Built Products classifier to specify the product incoming feedback.
 - Build Text Categorizer/ Sentiment Analysis for classifying each incoming feedback.

Microsoft Research, Applied Scientist, US 2013 – 2014

- Built scalable [Named Entity Recognition](#) and relation extraction pipelines from unstructured web text (24 languages), integrated with Microsoft Office and Satori using CRF and KNN clustering.

TripleSoft, Co-founder, Tech Lead, Cairo, Egypt 2011 - 2013

EDUCATION

[Graduation: 2025]

▪ **University of Washington – Master of Science:**

[Computational Linguistics](#) (GPA: **3.91**)

▪ **Cairo University – Master of Science: Computer Engineering** (GPA: **4.0**)

▪ **Cairo University '13 - Major: Computer Engineering**

- GPA: **4.0** - with Honor Degree
- Rank: **4th** on class
- Graduation Project: [Videolator](#), Distinction (96.5%)

PUBLICATIONS

- [Transformer-based Vulnerability Detection in Code at EditTime](#): Zero-shot, Few-shot, or Fine-tuning? (May 2023)
- [Vulnerability reduction for syntactically incomplete code](#) (US 0152624, Issued May 9, 2024)

AWARDS

- Microsoft, Machine Learning Engineer
 - **3rd Place**, internal Garage Hackathon, Bing 2013
- [Videolator](#), Co-founder, Tech Lead
 - 1st Place, Egypt's Innovation Award 2014
 - 1st Place, IEEE's Egyptian Engineering Day Award 2013
 - [Imagine Cup WW](#), App Fast Track (AFT) Award 2013
- **Best Student Award**, Egyptian Universities 2012

INTERNSHIPS

[Redmond, WA]

Microsoft, Software Engineer July - Aug. 2012

- Built a recommendation system for Xbox Live services to allow faster media downloads through console-to-console connection.
- Integrated with Bing Maps for a worldwide visualization tool that could show the connections between different consoles across the globe.
- Presented to Xbox board of directors and used in Xbox-One ship room.

STUDENT ACTIVITIES

[Cairo University]

Microsoft Student Partner (MSP) 2010 - 2013

- **Tech Lead** of .Net vertical, leading multi-sited (200+) MSPs. My team delivered (15+) sessions.
- Co-founder of Microsoft Tech Club in Cairo University.
- Speaker & Organizer in (20+) sessions & events.

Cairo Computer Engineering Lab - Chairman 2010 – 2012

- Built a hub for Cairo University Students (**230K students**) with focus on CS major to provide: Technical & Soft Skills (Presentations, Communications & Management)

SKILLS

[Each line is sorted: Excellent to fair]

- LLMs, NLP, Machine Learning, Responsible AI, Information Retrieval, Deep Learning, NLU, Spark, TensorFlow
- Python, C#, Java, C++
- Unit Testing, STL, OOP, DB Design, SQL, MVC ASP.NET