

# MAHMOUD ZAKY FETOH

## Personal Data

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## Objective

I am a junior MERN stack engineer passionate about solving a real-world problem, working and collaborate with a great Engineers that I can learn from. I have strong knowledge of algorithms and writing efficient and high performing code.

## Education

2020-Present	<b>Faculty of Computers and Information, Menoufia university</b> , Egypt. M.Sc., doing computer vision research, Expected graduation 2023
2015-2019	<b>Faculty of Computers and Information, Menoufia university</b> , Egypt. B.Sc. Honors, I graduated with the Top, 1st, Grade, Excellent with honor GPA 3.5.

## Work Experience

2020-Present	<b>Demonstrator</b> <b>Faculty of Computers and Information, Menoufia university</b> . Teaching Deep Learning, Computer Vision Courses and Speech recognition.
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## Frameworks & Technical Skills

<b>Languages:</b>	Python, NodeJS, GoLang(learning)
<b>Programming Paradigms:</b>	Object-oriented programming (OOP) and Functional Programming (FP).
<b>HTTP Servers Frameworks:</b>	ExpressJS, Flask.
<b>Front-End Frameworks :</b>	ReactJS, and Angular(learning).
<b>Version Control Tools:</b>	Git, Github.
<b>Client API:</b>	REST, GraphQL, gRPC, and SocketIO
<b>Databases:</b>	MONGODB, MySQL.
<b>Deep Learning:</b>	PyTorch, Numpy, Pandas, OpenCV.
<b>Message Broker:</b>	RabbitMQ.
<b>Security Utilities:</b>	Joi, Jsonwebtoken (JWT).
<b>Containerization Technology:</b>	Docker, Docker-Compose.
<b>Caching:</b>	Redis.
<b>Testing:</b>	Jest.

## Ten Publications

P. Möbius, G. Nordsiek, **M. Hölzer**, M. Jarek, M. Marz, and H. Köhler. Complete Genome Sequence of JII-1961, a Bovine *Mycobacterium avium* subsp. *paratuberculosis* Field Isolate from Germany. *Genome Announc.* 5(34), 2017.

J. Fuchs, **M. Hölzer**, M. Schilling, C. Patzina, A. Schoen, T. Hoenen, G. Zimmer, M. Marz, F. Weber, M. A. Müller, and G. Kochs. Evolution and Antiviral Specificities of Interferon-Induced Mx Proteins of Bats against Ebola, Influenza, and Other RNA Viruses. *J Virol.* 12; 91(15), 2017.

**M. Hölzer**, V. Krähling, F. Amman, E. Barth, S. H. Bernhart, V. A. O. Carmelo, M. Collatz, G. Doose, F. Eggenhofer, J. Ewald, J. Fallmann, L. M. Feldhahn, M. Fricke, J. Gebauer, A. J. Gruber, F. Hufsky, H. Indrischek, S. Kanton, J. Linde, N. M. Berrospi, R. Ochsenreiter, K. Rieger, L. Rivarola-Duarte, A. H. Sahyoun, S. J. Saunders, S. E. Seemann, A. Tanzer, B. Vogel, S. Wehner, M. T. Wolfinger, R. Backofen, J. Gorodkin, I. Grosse, I. Hofacker, S. Hoffmann, C. Kaleta, P. F. Stadler, S. Becker, and M. Marz. Differential transcriptional responses to Ebola and Marburg virus infection in bat and human cells. *Scientific reports* 6:34589, 2016.

A. H. Sahyoun, **M. Hölzer**, F. Jühling, C. Höner Zu Siederdissen, M. Al-Arab, K. Tout, M. Marz, M. Middendorf, P. F. Stadler, and M. Bernt. Towards a comprehensive picture of alloacceptor tRNA remodeling in metazoan mitochondrial genomes. *Nucleic Acids Res.* 43(16):8044–8056, 2015.