



## Amir Masoud Nourollah

☎ +98 912 0197 503  
✉ nourollah.am@gmail.com  
📍 Iran  
🎂 1997, August

📄 Google Scholar  
● StackOverflow  
🐙 github.com/Nourollah  
● linkedin.com/in/amnrl

🗣 English

• **IELTS** Overall: 6.5

• **GRE** Score: Verbal Reasoning 162, Quantitative Reasoning 169, Analytical Writing 4

🗣 Persian: Native

🗣 Azerbaijani: Native

🗣 Germany: Basic

## INDUSTRIAL EXPERIENCES

Jan 2023  
now

### Machine Learning Researcher NOBKA · Iran 📍



- Meaningful sentence generation using some random letters
- TTS and STT for voice conversion
- Lossy and lossless steganography for image to image, text to image, and text to text

Jul 2021  
Jul 2022

### Computer Vision Engineer NOVE · Iran 📍



- Aerial image segmentation
- Common object detection
- Realtime cough detection

Nov 2017  
Jan 2021

### Software Developer FARADID PAYESH SYSTEM · Iran 📍



- Cross-platform navigation app
- Messenger multi-threading core
- Linux administration

## EDUCATION

2020  
Present

### Master of Science Student in Artificial Intelligence and Robotics SHAHROOD UNIVERSITY OF TECHNOLOGY · Iran 📍



- **Thesis:** Using deep learning to detect neurons and segment them either binary or semantic for their components to compute their length in fluorescence microscopy images.
- **Teaching Assistant:** Neural Networks and Deep Learning - Digital Image Processing - Big Data and Scalable Machine Learning.
- **GPA:** 3.8
- **Rank:** 2 among 30

2017  
2020

### Bachelor of Science in Chemistry- Information Technology ISLAMIC AZAD UNIVERSITY, TEHRAN NORTH BRANCH · Iran 📍



- **Activities:** Using PET as a catalyst to produce bio-diesel.
- **GPA:** 3.4
- **Rank:** 1 among 90

## SKILLS

**PROGRAMMING** Python, C++

**FRAMEWORKS** PyTorch, Django, FastAPI, SQLAlchemy, Flask

**LIBRARIES** Huggingface, OpenMMLab, SciKit Libraries, OpenCV, NumPy, Pandas, Matplotlib, Pydub, Plotly

**TOOLS** Linux, Git, Docker, Docker-Compose, SQLite, PostgreSQL, CMake, GitHub Actions, Gaussian, ChemOffice

## PUBLICATIONS

- 2023** Quantifying Morphologies of Developing Neuronal Cells Using Deep Learning with Imperfect Annotations, Journal of IBRO Neuroscience Reports, **Amir Masoud Nourollah**, Hamid Hassanpour, Amin Zehtabian
- 2022** WhisperNetV2: SlowFast Siamese Network For Lip-Based Biometrics, Revised for Journal of IEEE Transactions on Pattern Analysis and Machine Intelligence, Abdollah Zakeri, Hamid Hassanpour, Mohammad Hossein Khosravi, **Amir Masoud Nourollah**

### </> AREAS OF INTEREST

Multimodal Deep Learning  
Machine Learning in Chemistry  
Semiconductor  
Reinforcement Learning

## ONLINE COURSES & CERTIFICATIONS

|                        |  |
|------------------------|--|
| DeepLearning.AI        | Deep Learning Specialization                             |
| DeepLearning.AI        | Generative Adversarial Networks Specialization           |
| DeepLearning.AI        | DeepLearning.AI TensorFlow Developer Specialization      |
| DeepLearning.AI        | TensorFlow: Advanced Techniques Specialization           |
| DeepLearning.AI        | Introduction to Machine Learning in Production           |
| Stanford Online        | Machine Learning   |
| IBM                    | Machine Learning with Python                             |
| IBM                    | Scalable Machine Learning on Big Data using Apache Spark |
| University of Alberta  | Reinforcement Learning Specialization                    |
| University of Michigan | Database Design and Basic SQL in PostgreSQL              |
| Fanavaran Anisa        | Data Science with Python                                 |
| Fanavaran Anisa        | Linux Professional Institute Certification 2             |
| Fanavaran Anisa        | Master of Bash Scripting                                 |
| Fanavaran Anisa        | Embedded Linux From Scratch                              |

## REFERENCES

### PROF. HAMID HASSANPOUR

- Professor in Computer Engineering at the Shahrood University of Technology
- ✉ h.hassanpour@shahroodut.ac.ir
- ☎ +98 911 112 8380

### DR. AMIN ZEHTABIAN

- Researcher in Chemistry and Biochemistry at Freie Universitat Berlin
- ✉ amin.zehtabian@fu-berlin.de
- ☎ +49 163 138 6888

### DR. HODA MASHAYEKHI

- Assistant Professor in Computer Engineering at Shahrood University of Technology
- ✉ hmashayekhi@shahroodut.ac.ir
- ☎ +98 912 373 0414

### DR. MONIREH FARAJI

- Assistant Professor in Chemistry at Islamic Azad University Tehran North Branch
- ✉ m.faraji@iau-tnb.ac.ir
- ☎ +98 914 412 6658