

# Rastin Maleki

Rasht, Guilan, Iran

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## EDUCATION

### University of Guilan

Bachelor of Science, Computer Engineering

Rasht, Guilan, Iran

September 2021 - September 2025

- GPA: **18.80/20 (3.83/4)**, Last two years GPA: **19.43/20 (4/4)**
- Ranked 6<sup>th</sup> out of 61 graduating students

## RESEARCH INTERESTS

- ☐ Computational Linguistics   ☐ Deep Learning in Smart Environments, Robotics and IoT Systems
- ☐ Generative AI   ☐ Predictive Condition Monitoring and Machinery Fault Detection

## PUBLICATIONS AND RESEARCH EXPERIENCE

- M. Amin Rezanezhad, **Rastin Maleki**, Sepehr Rezaii Melal, Mahdi Aminian, and S. M. Shekarian. **“Modeling the Prediction of Indoor Humidity and Temperature in Smart Greenhouses by Combining LSTM and IoT”**  
*In progress*  
Collaborating in a research project focused on combining IoT systems with LSTM models to predict indoor humidity and temperature.
- Fatemeh Ahmadi, Anita Kamani, **Rastin Maleki**, Pooya Kazemian, Yasaman Boreshban and S. A. Mirroshandel. **“Finding Common Ground: Annotating and Predicting Common Ground in Spoken Conversations”**  
*In progress*  
Collaborating in a research project focused on building a Persian dataset for understanding and predicting common ground in conversations, aiming to improve the quality of Persian conversational AI. We are using LLMs to evaluate their effectiveness in capturing common ground between speakers, providing a baseline for future research.
- **Rastin Maleki**, Mahdi Aminian. **“PolySilicon and Metal - A Glimpse on MOSFETs Design Challenges.”**  
[\[PDF\]](#) [github.com](https://github.com)  
*Research Report*  
Conducted a research report exploring the changes in MOSFETs' gate electrode material throughout time as the final research project for both Research Methodologies and AVLSI courses. Through this project, I learned how to properly write academic content following proper formatting, creating figures, and managing references.

## TEACHING ASSISTANCE EXPERIENCE

### Teaching Assistant

Multiple Courses

University of Guilan

September 2021 - September 2025

Participated in more than six courses, chosen for my academic excellence, strong communication skills, and proficiency in providing instructional support. Designed and assessed students' assignments and projects, provided complementary materials and conducted weekly troubleshooting sessions.

- Head Teaching Assistant, Data Structures, Instructed By Dr. S. A. Mirroshandel
- Head Teaching Assistant, Discrete Mathematics, Instructed By Dr. S. M. Shekarian
- Teaching Assistant, Advanced Programming, Instructed By Dr. S. A. Mirroshandel
- Teaching Assistant, Fundamentals of Computer Programming, Instructed By Dr. S. M. Shekarian
- Teaching Assistant, The Theory of Formal Languages and Automata, Instructed By Dr. S. M. Shekarian
- Teaching Assistant, Electronic Circuits, Instructed By Dr. Mahdi Aminian

SELECTED COURSES

- ☐ Deep Learning: 19
- ☐ Engineering Probability and Statistics (Data Science): 20
- ☐ Data Structures: 20
- ☐ Natural Language Processing: 20
- ☐ Advanced Programming: 20
- ☐ Algorithms Design: 19.91
- ☐ Artificial Intelligence: 19.21
- ☐ Signal and Systems: 19.5
- ☐ AVLSI System Design: 20

SKILLS & TECHNOLOGIES

Programming Languages	: Python, Java, C++ , VHDL
PyData Ecosystem & ML	: PyTorch, TensorFlow, Scikit-Learn, NLTK, Spacy, Hugging Face
IOT & Micro Controllers	: Arduino IDE, MQTT, Node Red, Thingspeak
Hardware Design	: Proteus, LEDIT, Intel Quartus, ISE Xilinx
Databases	: SQL server, MySQL, ER Diagram Design
Other Technologies	: Git, <del>LaTeX</del> TeX, Microsoft Office, Cisco Basics, PyQt
Computer Science	: Deep Learning, Data Science, Data visualization and storytelling, Statistics, Building and fine-tuning models, RAGs, Data Structures and Algorithms, OOP programming
Non-Technical	: Problem Solving, Problem Designing, Teaching, Presentation, Documentation








PROFESSIONAL EXPERIENCE

<b>Python Developer</b> <i>SeeNous</i>	<b>Remote   Mashhad, Razavi Khorasan</b> <i>Since January 2025</i>
<ul style="list-style-type: none"><li>• Trained deep learning models for fault detection in industrial machinery trained on vibration data.</li><li>• Built desktop applications and dashboards tailored to company requirements using Python.</li><li>• Developed data cleaning pipelines.</li><li>• Integrated a Motion Detection and Amplification feature into the company’s product.</li><li>• Collaborated in daily Scrum meetings, weekly sprint plannings, and OKRs.</li></ul>	
<b>Freelance English Translator</b> <i>GameSub</i>	<b>Remote</b> <i>October 2019 to October 2024</i>
<ul style="list-style-type: none"><li>• Translated in-game text and dialogue from English to Farsi while contributing to the development of translation mods sold to the Persian video game community. Translated more than 1.4 million words.</li><li>• Enhanced skills in translating colloquial speech, while collaborating within a professional team environment.</li></ul>	




SELECTED PROJECTS ( [MORE PROJECTS ON GITHUB](#) )

<b>QA and RAG on Guilan Food Recipes</b> <i>PyTorch, Fine-Tuning, RAG</i>	<b>September 2025</b>
<b>EIVA: Embedded Language Model and Virtual Assistant</b> <i>IoT, ESP32, Python, C, Hugging Face, LLM, TTS, STT</i>	<b>January 2025</b>
<b>Website Traffic Prediction</b> <i>Python, Data Science, Machine Learning, Classification Algorithms, Presentation and Documentation</i>	<b>November 2024</b>
<b>Product Sales Analysis</b> <i>Python, Data Analysis, Exploratory Data Analysis, Presentation and Documentation</i>	<b>October 2024</b>
<b>Physical Layout for Two Bit Comparator Using L-EDIT IC</b> <i>L-EDIT, Physical Layout, VLSI Design</i>	<b>Winter 2024</b>
<b>NeonBlaster: An Arcade Shooting Game on FPGA</b> <i>Cyclone® V FPGA, VHDL, Quartus Prime</i>	<b>Fall 2023</b>
<b>Bomber Friends Game</b> <i>Java, Java Swing, GUI, OOP</i>	<b>Spring 2022</b>

SELECTED CERTIFICATIONS

<b>Natural Language Processing Specialization (5 Courses)</b> 	<b>Coursera   DeepLearning.AI</b> September 2025
<b>Machine Learning Specialization (3 Courses)</b> 	<b>Coursera   DeepLearning.AI</b> August 2025
<b>Python for Everybody Specialization (5 Courses)</b> 	<b>Coursera   University of Michigan</b> July 2025
<b>Data Scientist Certificate (Manually Graded Practical Exam)</b> 	<b>DataCamp</b> November 2024
<b>Data Analyst Certificate (Manually Graded Practical Exam)</b> 	<b>DataCamp</b> October 2024
<b>Data Engineer Certificate (Manually Graded Practical Exam)</b> 	<b>DataCamp</b> October 2024
<b>SQL Associate Certificate</b> 	<b>DataCamp</b> October 2024

HONORS AND AWARDS

<ul style="list-style-type: none"><li>Ranked 6<sup>th</sup> CGPA among undergraduate students of major (2025).</li><li>Acknowledged as exceptional talent by the University of Guilan for outstanding achievements (2025). </li><li>Achieved 2<sup>nd</sup> place in a university-level programming contest called Guilan CodeCup (2025). </li><li>Designed innovative problems for a university-level programming contest called Guilan ACM (2024). </li><li>Ranked within the top 6% among 127,000 participants in undergraduate Mathematics and Physics Iranian University Entrance Exam (SAT, the US equivalent) (2021).</li><li>Ranked within the top 0.7% among 130,000 participants in undergraduate Foreign Languages Iranian University Entrance Exam (2021).</li></ul>	
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LANGUAGES AND TEST SCORES

<b>Persian:</b> Native	<b>English:</b> Fluent (Ielts to be taken soon)	<b>GRE:</b> (To be taken soon)
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REFERENCES

<b>Dr. Seyed Abolghasem Mirroshandel</b> Associate Professor, University of Guilan	<b>Stony Brooks, USA</b> <a href="#">Email</a>   <a href="#">Home</a>   <a href="#">Scholar</a>
<b>Dr. Seyed Mohammad Hossein Shekarian</b> Assistant Professor, University of Guilan	<b>Rasht, Guilan</b> <a href="#">Email</a>   <a href="#">Home</a>   <a href="#">Scholar</a>
<b>Dr. Mahdi Aminian</b> Assistant Professor, University of Guilan	<b>Rasht, Guilan</b> <a href="#">Email</a>   <a href="#">Home</a>   <a href="#">Scholar</a>