

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: **18.53/20 (3.82/4)**, Last two years GPA: **19.6/20 (4/4)**
- Ranked 6th 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, Asadollah Shahbahrami. **“PolySilicon and Metal - A Glimpse on MOSFETs Design Challenges.”** [\[PDF\]](#) [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, LaTeX 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

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




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

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

SELECTED CERTIFICATIONS

Natural Language Processing Specialization (5 Courses) 	Coursera DeepLearning.AI September 2025
<i>Machine Learning, Natural Language Processing, Text Mining</i>	
Machine Learning Specialization (3 Courses) 	Coursera DeepLearning.AI August 2025
<i>Machine Learning, Deep Learning, Reinforcement Learning, Data Ethics</i>	
Python for Everybody Specialization (5 Courses) 	Coursera University of Michigan July 2025
<i>Web Scraping, Databases, Programming Principles, File Management, Data Cleansing</i>	
Data Scientist Certificate (Manually Graded Practical Exam) 	DataCamp November 2024
<i>Exploratory Analysis, Statistical Experimentation, Model Development, Communication and Reporting</i>	
Data Analyst Certificate (Manually Graded Practical Exam) 	DataCamp October 2024
<i>Analytic Fundamentals, Exploratory Analysis, Data Management, Visualization and Reporting</i>	
Data Engineer Certificate (Manually Graded Practical Exam) 	DataCamp October 2024
<i>Programming for Data Engineering, Data Management, Exploratory Analysis</i>	
SQL Associate Certificate 	DataCamp October 2024
<i>Exploratory Analysis, Data Management</i>	

HONORS AND AWARDS

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

Persian: Native	English: Fluent (Ielts to be taken soon)	GRE: (To be taken soon)
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REFERENCES

Prof. Asadollah Shahbahrami <i>Professor, University of Guilan</i>	Rasht, Guilan Email Home Scholar
Dr. Seyed Abolghasem Mirroshandel <i>Associate Professor, University of Guilan</i>	Stony Brooks, USA Email Home Scholar
Dr. Seyed Mohammad Hossein Shekarian <i>Assistant Professor, University of Guilan</i>	Rasht, Guilan Email Home Scholar
Dr. Mahdi Aminian <i>Assistant Professor, University of Guilan</i>	Rasht, Guilan Email Home Scholar