

Nami Modarressi

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Skills

- **Programming Languages:** C, C++, C#, Python, Java, JavaScript, HTML, CSS, SQL, Arm Assembly, Visual Basic, QBasic
- **Software and Simulations:** Linux, Git, Docker, Xcode, Unity, Postman, Wireshark, DataGrip, Sql Server, MySql, Arduino IDE, ISE, ModelSim
- **Devices:** Arduino, ESP Modules, Raspberry PI, Google TPU edge
- **Soft Skills:** Communication, Public Speaking, Team Work, Leadership, Project Management, Self-Learning
- **Other Skills:** Photography, Videography, Digital Drawing

WORK EXPERIENCE

Research Intern, Telus	May 2024 - December 2024
<ul style="list-style-type: none">• Working on an XR project that creates a real-time digital twin of a room to help remote support assist people.• Working on the XR application, video streaming system, and implementing a live chat system within the application.	
Graduate Researcher, University of Calgary	September 2023 - Present
<ul style="list-style-type: none">• Working on a new idea that integrates generative AI for testing XR applications. In this project, I'm developing a tool that generates test code based on a test automation framework to make testing XR applications easier and faster.	
Software Engineer, Hamrahe Aval (IRMCI)	Spring 2021
<ul style="list-style-type: none">• Design a system and fundamental libraries for IOT communication based on MQTT and HTTP protocols for both High bitrate and ultra-low power Communication.	
Researcher, Institute for Research in Fundamental Sciences (Iran)	Summer 2022
<ul style="list-style-type: none">• Analyzing Twitter using graph neural networks in order to find critical tweets and events.	

EDUCATION

University of Calgary, MSc in Computer Science	September 2023 - Present
<ul style="list-style-type: none">• GPA 4.0/4.0• The research thesis presents a new tool based on generative AI for testing XR software and compares it to previous methods such as manual testing and capture-and-replay.	
Amirkabir University of Technology(Tehran polytechnic), B.Sc. in Computer Engineering	September 2018 - Jun 2023
<ul style="list-style-type: none">• Final GPA: 18.1/20• Final project on optimizing advertisements on a webpage by changing their position within the page.	
Allame Helli 1 High School(NODET), High School Diploma in Mathematics and Physics.	September 2015 - June 2018
<ul style="list-style-type: none">• Final GPA: 19.52/20	

PROJECTS

TestGPT [[Available Here](#)]

- A software testing tool based on Arium — a test automation framework that uses generative AI to generate tests for a given scenario. This tool makes testing XR applications automated, faster, easier, and less time-consuming.

CoDet [[Code](#)]

- Implementation of an app-based COVID-19 detection system for CXR images and CT scans using VGG16, VGG19, ResNet50 and InceptionV3 models

XV6-Kernel Thread [[Code](#)]

- Implementation of Kernel Thread in XV6

Plants vs Zombies [[Code](#)]

- Implementation of Plants Vs Zombies game with Graphics using java swing

Pac-Man [[Code](#)]

- Implementation of search algorithms, multiagent minimax and expectimax algorithms, alpha-beta pruning, model-based and model-free reinforcement learning algorithms in the Pac-Man game

Snail Jumper [[Code](#)]

- Implementation of a neuroevolution algorithm in a game

FuzzyEH [[Code](#)]

- Implementation of a fuzzy expert system for heart disease diagnosis

E-Learning-Database [[Code](#)]

- Implementation of a Database for a university E-learning management system

AWARDS

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|---|--------------------|
| • International Graduate Tuition Award (IGTA) | 2023 |
| • University of Calgary Full scholarship for Master's of Computer Science | 2023 |
| • Ranked as Top 1% among more than 130,000 participants in Iran's National Entrance Exam for Undergraduate University | 2018 |
| • Educated in Iranian National Organization for Development of Exceptional Talents Secondary and High School (NODET) | 2011 - 2018 |
| • Awarded as the Tehran Polytechnic's exceptionally talented student | 2018 |

Volunteering

Computer Science Graduate Society (CSGS)

April 2024 - Present

- Head of Social Events (VP Social)
- Managed social events for Computer Science graduate students at the University of Calgary.