

# 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

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## WORK EXPERIENCE

- Research Intern, Telus** **May 2024 - December 2024**
- 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**
- 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**
- 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**
- Analyzing Twitter using graph neural networks in order to find critical tweets and events.

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## EDUCATION

- University of Calgary, MSc in Computer Science** **September 2023 - Present**
- 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**
- 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**
- 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

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## AWARDS

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

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## 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.