

COMPUTER SCIENCE · PHD STUDENT

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### **Education**

#### **Georgia Institute of Technology**

Atlanta, GA, USA

Ph.D. IN COMPUTER SCIENCE

Aug. 2023 - PRESENT

· Advised by Alberto Dainotti and Cecilia Testart

Tehran, Iran

**University of Tehran** 

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B.Sc. in Computer Engineering

Sept. 2018 - Feb. 2023

• GPA: 17.63/20 (3.68/4.0)

### Research Interests

Computer Networks Internet Measurements Network Security BGP Security Internet Outage Detection

### Publications \_\_\_\_\_

Mostafa Meimand, Vanshaj Khattar, Zahra Yazdani, Farrokh Jazizadeh, Ming Jin. "TUNEOPT: An Evolutionary Model-based Reinforcement Learning Controller For Tuning Energy-Comfort Optimization Formulations" – Published - ACM BuildSys'23

# Research Experiences \_\_\_\_\_

### **Georgia Institute of Technology**

Atlanta, GA, USA

GRADUATE RESEARCH ASSISTANT

Aug. 2023 - PRESENT

- Researcher in the Internet Intelligence Research Lab
- Under the Supervision of Prof. Cecilia Testart and Prof. Alberto Dainotti Analyzing BGP misconfigurations using Global Routing Intelligence Platform (GRIP) data.
- Under the Supervision of Prof. Paul Pearce Checking for potential security issues in a network after an internet outage resulting from a power failure.

### Virginia Polytechnic Institute and State University, SPIN Lab

Blacksburg, VA, USA

Undergraduate Research Assistant

July 2021 - May 2023

- Under the Supervision of Prof. Shaddi Hasan
- Feb. 2022 May 2023 Worked on a project called "AvA". The ultimate goal of AvA is to provide more stable and better performing cellular connections in future cellular networks.
- July 2021 Jan. 2022 Designed tools for collecting data on California power outages for evaluating wildfire's impacts on mobile network resilience in future works. The system enables us to capture near-real-time outage data from the two largest electric utilities in the state.

## Teaching Experiences \_\_\_\_\_

## University of Tehran

Tehran, Iran

Undergraduate Teaching Assistant in Formal Languages and Automata

Sept. 2021 - Jan. 2022

· Designed two assignments and grading.

### Undergraduate Teaching Assistant in **Advanced Programming**

Feb. 2020 - Jan. 2022

- Responsible for proposing the initial idea, designing, and implementing projects as a group of TAs and in-person or online evaluation and grading sessions.
- Assigned to total number of twelve projects in four semesters.

## **Honors & Awards**

Georgia Institute of Technology President's Fellowship, Additional stipend of \$5,500 per academic year offered to a select number of highly qualified doctoral students across the nation.

Atlanta, GA, USA

2018 Ranked among the top 0.9% of students, Iranian University Entrance Exam

Tehran, Iran

# Notable Course Projects \_\_\_\_\_

2022	Android Auto, Launching an open-source version of android auto called "openauto" and adding	C++
	features such as fixing memory leakage, and making it minimal with required features.	
2022	<b>Surface Scanner</b> , Building an android application to scan a surface using phone's sensors such as	Java
	accelerometer and gyroscope.	
2022	<b>IEMDB,</b> Implementing a movie web application from scratch using Spring Framework (for backend), JavaScript(React for frontend), MySQL, Docker, and Kubernetes.	Java
	<b>Project Management</b> , Planning different aspects of a system for tracking students' requests, such	
2021	as time management using Gantt chart, risk management, and cost managements, also planning it	
	using Agile methods.	
2021	<b>OAuth</b> , Implementing OAuth for a web application.	Python
2021	<b>Testing Methods</b> , Implementing different testing methodologies such as Junit, test doubles,	, and the second second
	graph-based testing, logic-based testing, and UI testing.	Java
2021	Image Classification, Designing and implementing a neural network for image classification using	
	Keras and TensorFlow.	Python
2021	Price Prediction Using Advanced Regression Techniques, Implementing a price prediction	
	system for cars using models such as KNN, Decision Tree, and random forest.	Python
2021	<b>Network Routing</b> , Implementing a virtual network routing protocol among connected nodes using	
	Distance Vector Multicast Routing Protocol (DVMRP).	C++
2021	<b>Network Switch</b> , Implementing a layer two network switch sharing data between different	
	systems using Ethernet frames and Spanning Tree algorithm.	C++
2021	<b>FTP Server</b> , Implementing a FTP server sharing data with a client using socket programming.	C++
2021	<b>XV6</b> , Working with the XV6 kernel and adding some features such as system calls, different	_
	scheduling, user programs, and synchronization.	С
2020	<b>Sophia Compiler</b> , Designing and implementing a compiler for a language called "Sophia" given	
	the language documentations from scratch.	Java, ANTLR4
2020	MIPS Processor, Implementing MIPS Processor in three phases: single-cycle, single-cycle with	
	pipeline, and multi-cycle.	VerilogHDL
2019	<b>Netflix</b> , Implementing a simple form of Netflix with a basic recommender system using object	0
	oriented programming and creating a simple web application version of it.	C++, HTML

# Skills\_\_\_\_\_

Programming	Python, C, C++, Java, VerilogHDL, HTML, CSS, SQL, ŁTEX, P4 Familiar with Assembly
Technologies	Git, Maven, Makefile
Web Development	React, Spring, TomCat
<b>Machine Learning</b>	Pandas, NumPy, Scikit-learn, Matplotlib, TensorFlow, Keras
Frameworks	JUnit, Docker
	Familiar with Kubernetes
<b>Hardware Simulators</b>	Familiar with ModelSim, Quartus
<b>Software Engineering</b>	Object-oriented Programming, Software Testing Methodologies, Agile, Scrum
<b>Operating Systems</b>	MacOS, Linux
Other	Android Development
	Persian: Native proficiency

Arabic: Elementary proficiency

**Languages** English: Full professional proficiency - TOEFL Score: 108/120 (Advanced)