

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	Surface Scanner , Building an android application to scan a surface using phone's sensors such as	Java
	accelerometer and gyroscope.	3474
2022	IEMDB , Implementing a movie web application from scratch using Spring Framework (for	Java
	backend), JavaScript(React for frontend), MySQL, Docker, and Kubernetes.	
2021	Project Management , Planning different aspects of a system for tracking students' requests, such	
	as time management using Gantt chart, risk management, and cost managements, also planning it	
	using Agile methods.	
2021	OAuth , Implementing OAuth for a web application.	Python
2021	Testing Methods, Implementing different testing methodologies such as Junit, test doubles,	Java
	graph-based testing, logic-based testing, and UI testing.	
2021	Image Classification, Designing and implementing a neural network for image classification using	Duthon
	Keras and TensorFlow.	Python
2021	Price Prediction Using Advanced Regression Techniques, Implementing a price prediction	Python
	system for cars using models such as KNN, Decision Tree, and random forest.	
2021	Network Routing , Implementing a virtual network routing protocol among connected nodes using	Ć.,
	Distance Vector Multicast Routing Protocol (DVMRP).	C++
2021	Network Switch, Implementing a layer two network switch sharing data between different	C++
	systems using Ethernet frames and Spanning Tree algorithm.	
2021	FTP Server, Implementing a FTP server sharing data with a client using socket programming.	C++
2021	XV6, Working with the XV6 kernel and adding some features such as system calls, different	
	scheduling, user programs, and synchronization.	С
2020	Sophia Compiler , Designing and implementing a compiler for a language called "Sophia" given	In an ANTIDA
	the language documentations from scratch.	Java, ANTLR4
2020	MIPS Processor, Implementing MIPS Processor in three phases: single-cycle, single-cycle with	V IDI
	pipeline, and multi-cycle.	VerilogHDL
2019	Netflix , Implementing a simple form of Netflix with a basic recommender system using object	CL. UTAN
	oriented programming and creating a simple web application version of it.	C++, HTML

Skills_____

Programming	Python, C, C++, Java, VerilogHDL, HTML, CSS, SQL Familiar with Assembly, 町区
Technologies	Git, Maven, Makefile
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Web Development React, Spring, TomCat

Machine Learning Pandas, NumPy, Scikit-learn, Matplotlib, TensorFlow, Keras

Frameworks JUnit, Docker

Familiar with Kubernetes

Hardware Simulators Familiar with ModelSim, Quartus

Software Engineering Object-oriented Programming, Software Testing Methodologies, Agile, Scrum

Operating Systems MacOS, Linux

Other Android Development

Persian: Native proficiency

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

Arabic: Elementary proficiency