Zahra Yazdani Tazeh Kand

COMPUTER ENGINEERING · BSc STUDENT

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Education

University of Tehran

Tehran, Iran

Sept. 2018 - PRESENT

B.Sc. IN COMPUTER ENGINEERING

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GPA: 17.46/20 (3.66/4.0)
Roshangar High School

Tehran, Iran

DIPLOMA OF PHYSICS AND MATHEMATICS

2014 - 2018

· GPA: 19.93/20

Research Interests __

Computer Networks Information and Communications Technologies for Development (ICTD) HCI Software Engineering

Publications _____

Tenzin Samten Ukyab, Zhihong Luo, Silvery Fu, Demetrius Davis, Zahra Yazdani, Shaddi Hasan, Hannaneh Barahouei Pasandi, Sylvia Ratnasamy, Scott Shenker. "Making Cellular Networks More Efficient By Roaming In-Place" Hot-Mobile 2023 – under submission

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.

Research Experiences _____

Virginia Polytechnic Institute and State University, SPIN Lab

Blacksburg, VA, USA

Undergraduate Research Assistant

July 2022 - PRESENT

- Under the Supervision of Dr. Shaddi Hasan
- Feb. 2022 present Currently working 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.

Coursework

Introduction to Computing Systems and Programming (18.25) Advanced Programming (20) Differential Equations (19)

Engineering Probability and Statistics (17) Data Structures (19.7) Computer Architecture (20) Algorithm Design (16.9)

Operating System (17.5) Compiler design and programming languages (18) Systems Analysis and Design (18.5)

Artificial Intelligence (19) Computer Networks (17.3) Database Design (17.1) Software Engineering (18.4)

Introduction to Software Testing (18.8) **Internet Engineering** (17.7)

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	(++
	features such as fixing memory leakage, and making it minimal with required features.	CTT
2022	Surface Scanner , Building an android application to scan a surface using phone's sensors such as	Java
	accelerometer and gyroscope.	Juvu
2022	IEMDB , Implementing a movie web application from scratch using Spring Framework (for	Java
	backend), JavaScript(React for frontend), MySQL, Docker, and Kubernetes.	3474
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.	Sava
2021	Image Classification, Designing and implementing a neural network for image classification using	Python
	Keras and TensorFlow.	r yenon
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.	r yenon
2021	Network Routing , Implementing a virtual network routing protocol among connected nodes using	C++
	Distance Vector Multicast Routing Protocol (DVMRP).	
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	С
	scheduling, user programs, and synchronization.	, and the second
2020	Sophia Compiler , Designing and implementing a compiler for a language called "Sophia" given	Java, ANTLR4
	the language documentations from scratch.	Java, / IIV/ EN /
2020	MIPS Processor, Implementing MIPS Processor in three phases: single-cycle, single-cycle with	VerilogHDL
	pipeline, and multi-cycle.	vermegrizz
2019	Netflix , Implementing a simple form of Netflix with a basic recommender system using object	C++, HTML
	oriented programming and creating a simple web application version of it.	- ,

Skills____

Programming	Python, C, C++, Java, VerilogHDL, HTML, CSS, SQL
Programming	Familiar with Assembly, ET _E X

Technologies Git, Maven, Makefile **Web Development** React, Spring, TomCat

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

JUnit, Docker Frameworks

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: Professional working proficiency - TOEFL Score: 108/120 (Advanced)

Arabic: Elementary proficiency