

SeyedeH Negar Ghaderi

COMPUTER ENGINEERING · BSC STUDENT

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Education

University of Tehran

B.SC. IN COMPUTER ENGINEERING

• GPA: 15.23/20 (3.0/4.0)

Tehran, Iran

Sept. 2018 - PRESENT

Shokufe High School

DIPLOMA OF PHYSICS AND MATHEMATICS 2014 - 2018 • GPA: 19.25/20

Tehran, Iran

Research Interests

Computer Engineering Information and Communications Technologies for Development (ICTD) Computer Science
User Experience Design & Interactive Media Design (INT) Human-Computer Interaction (HCI) Information Technology

Working Experiences

Peppy Digger

FRONTEND DEVELOPER

Tehran, Iran

July 2022 - PRESENT

- Responsible for designing and implementing different parts of our web application.
- Implementation of total five base important functionalities of system, and help to improve and maintain the other parts.

Research Experiences

University of Tehran

UNDERGRADUATE RESEARCH ASSISTANT

Tehran, Iran

July 2022 - PRESENT

- Under the Supervision of Dr. Masood Rahgozar
- July 2022 – present: Currently working on a project related to the obtained OECD data of all countries. The ultimate goal of the project is to show the effect of social media on modeling the business structure and trade data through providing various functionalities such as integration, shock, and predictor which help use to get their desired result.

Honors & Awards

2018 Ranked among the top 0.7% of students, Iranian University Entrance Exam

Tehran, Iran

Coursework

Introduction to Computing Systems and Programming (13.75) Engineering Economy (20) Real Time Embedded Systems (15)

Machines and Language Theory (14.1) Computer Architecture (16.7) Electric Circuits (19.2)

Operating System (12.8) Foundations of Information Technology (18.5) Systems Analysis and Design (18.25)

Artificial Intelligence (13.75) Computer Networks (20) Database Design (17.7) Software Engineering (16.5)

Introduction to Software Testing (18.15) Internet Engineering (16.2) Information Technology Project Management (18.1)

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.	C++
2022	Surface Scanner , Building an android application to scan a surface using phone’s sensors such as accelerometer and gyroscope.	Java
2022	IEMDB , Implementing a movie web application from scratch using Spring Framework (for backend), JavaScript(React for frontend), MySQL, Docker, and Kubernetes.	Java
2022	MIPS Processor , Implementing MIPS Processor in three phases: single-cycle, single-cycle with pipeline, and multi-cycle.	VerilogHDL
2022	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.	Java
2021	Testing Methods , Implementing different testing methodologies such as Junit, test doubles, 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	Movie Genre Prediction Using Advanced Regression Techniques , Implementing a movie genre prediction system for movies using models such as Decision Tree and random forest.	Python
2021	Network and Open-Source Routing , Implementing a virtual network and open-source routing simulation among connected nodes in a virtual environment.	
2021	TCP congestion control , Implementing a network switch in NS2 using tcl, simulating congestion control methods such as New-Reno, Tahoe, and Vegas .	Tcl
2021	XV6 , Working with the XV6 kernel and adding some features such as system calls, different scheduling, user programs, and synchronization.	C
2021	Jepeto Compiler , Designing and implementing a compiler for a language called ”Jepeto” given the language documentations from scratch.	Java,ANTLR4

Skills

Programming	Python, C, C++, Java, VerilogHDL, HTML, CSS, SQL, JavaScript, Familiar with Assembly and L ^A T _E X
Technologies	Git, Maven, Familiar with Makefile
Web Development	React, Spring, TomCat, Familiar with Vue
Machine Learning	Pandas, NumPy, Scikit-learn, Matplotlib, TensorFlow, Keras
Frameworks	JUnit, Docker, Django Familiar with Kubernetes
Hardware Simulators	Familiar with ModelSim and Quartus
Software Engineering	Object-oriented Programming, Software Testing Methodologies, Agile, Scrum
Operating Systems	Windows, Linux
Other	Android Development
Languages	Persian: Native proficiency English: Professional working proficiency - IELTS Score: 6.5/9 Arabic: Elementary proficiency