Seyedeh Negar **Ghaderi**

COMPUTER ENGINEERING · BSC STUDENT

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Education

University of Tehran   *Tehran, Iran*
B.SC. IN COMPUTER ENGINEERING   *Sept. 2018 - PRESENT*
• GPA: 14.9/20 (3.0/4.0)

Shokufe High School   *Tehran, Iran*
DIPLOMA OF PHYSICS AND MATHEMATICS   *2014 - 2018* • **GPA: 19.25/20**

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   *Tehran, Iran*
FRONTEND DEVELOPER   *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   *Tehran, Iran*
UNDERGRADUATE RESEARCH ASSiSTANT   *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 Vagas .	*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 LᴀTEX
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