

# Parsa Alizadeh

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## Education

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University of Tehran , BS Computer Engineering

2022-2026(Expected)

## Experience

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### Computer Architecture

2023

- Divisor for unsigned fixed-point numbers
- Single-Cycle RISC-V Processor
- Multi-Cycle RISC-V Processor
- Multi-Cycle RISC-V Pipeline Processor

[Github](#)

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### Digital Design Lab

2024

- Clock and Periodic Signal Generation
- Sequential Synthesis and FPGA Programming
- Digital Modulation
- Using Altera FPGA and Quartus

[Github](#)

### Arm Processor(Computer Architecture Lab)

2025

Using Vivado and Xilinx FPGA

[Github](#)

### Artificial Intelligence

2025

- Implementation of Informed and Uninformed Search Algorithms and Solving a Problem with Them.
- Genetic & Game
- Predicting Student Grades with ML
- Convolutional vs. Fully Connected Neural Networks

[Github](#)

[Github](#)

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### Computer Aided Design of Digital Systems

2024

- Multiply by Approximation
- Designing an I/O Buffer
- Design and Implementation of the Processing Elements of Eyeriss Accelerator

[Github](#)

[Github](#)

### Computer Network

2025

- Socket Programming using QT framework
- Distributed File System Over LAN

[Github](#)

[Github](#)

- Making a Network using GN3 and Wireshark

## Operating Systems

2025

- Programming race with Socket programming
- Multi-process Programs and Inter-process Communication (IPC)
- Multi-Thread Design of a Neural Network
- LAB1: Introduction to XV6 OS
- LAB2: System calls using XV6
- LAB3: Scheduling using xv6
- LAB4: Synchronization using xv6

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## Related Courses

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- Digital Design
- Computer Architecture
- Computer Aided Design of Digital Systems
- Digital Design Lab
- Computer Architecture Lab
- Computer Networks
- Advanced Programming
- Data Structure and Algorithm
- Artificial Intelligence
- Engineering Probability and Statistics
- Operating Systems

## Skills & abilities

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- **Languages:**  
English : Fluent  
Persian : Native
- **Tools:** Modelsim , Vivado, GN3,
- **Programming:**  
Proficient in C\C++, Verilog, Python  
Familiar with: Java, Javascript
- **Libraries and Frameworks:**  
Familiar with: NumPy, Pandas, Scikit-Learn, TensorFlow, Matplotlib
- **Operating Systems:** Linux (Ubuntu), Windows