

# Reza Ramezanpour

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## EDUCATION

### SHARIF UNIVERSITY OF TECH.

BS IN ELECTRICAL ENGINEERING  
Digital System Design  
Jan 2021 | Tehran, Iran

### BEHESHTI HIGH SCHOOL

DIPLOMA IN MATH AND PHYSICS  
Affiliated with NODET  
Sep 2016 | Lahijan, Guilan

## RESEARCH INTERESTS

Big Data Analysis  
Machine Learning  
Parallel and Distributed Computation

## COURSEWORK

### GRADUATE

Big Data Analysis: 19.4  
Parallel Prog. and Architectures: 20  
Data Networks: 18.5  
Computer Interface Circuits: 20

### UNDERGRADUATE

Machine Learning: 19.0  
Fundamentals of Programming: 20  
Java Programming: 20  
Numerical Calculation: 19.4  
FPGA/ASIC Systems Design: 19.5  
Computer Architecture: 20  
Data Structure and Algorithm Analysis: 16  
Cryptography and Network Security: 18.4

## COMPUTER SKILLS

### PROGRAMMING LANGUAGES

C/C++ • Python • JAVA • Scala

### BIG DATA TOOLS AND PLS

Pyspark • Spark • Hadoop

### WEB DEVELOPMENT

HTML/CSS/JS • MYSQL • MongoDB

### CIRCUIT DESIGN TOOLS

Proteus • Model-sim • Xilinx ISE

### OTHERS

Microsoft Office •  $\text{\LaTeX}$  • Docker • Linux

## EXPERIENCE

### SHARIF UNIVERSITY OF TECHNOLOGY | TEACHING ASSISTANT

Courses:

- Logic Circuits
- Computer Architecture
- Numerical Calculation
- Object Oriented Programming

### HARDTECH STARTUP | MICROCONTROLLER PROGRAMMING INTERN

Summer 2019 | Tehran, Iran

Designing remote controller for electronic scooter so that people can rent and use it in public places

### NEUROSCIENCE SYMPOSIUM | ADVERTISEMENT MANAGER AND

WEBSITE DEVELOPER

Winter 2019 | Tehran, Iran

Link :Webpage

## PROJECTS

#### • Data Analysis of Tehran's Traffic Data

1. Recommending new paths for each individual car using Frequent itemsets Algorithm (FP-Growth)
2. Finding and clustering cars with similar driving patterns using LSH
3. Finding important points( Traffic cameras ) using PageRank
4. Clustering Traffic cameras using Community Detections algorithm (GraphX)
5. Designing a Recommender System to suggest new paths using ALS

#### • Finding nearest neighbor distance histogram (with GPU)

#### • Object Recognition in Images with Keras and Tensorflow

#### • Database Optimization

#### • Hand Digit Recognition

#### • Accidents Severity Prediction

#### • Voice Recorder and real-time pitch shifter

#### • P2P Channel Simulator

#### • PCIe and DDR2 SDRAM Controller Simulation in ISE

#### • Designing KDC for safe communication in LAN

#### • Single Cycle and Multi Cycle Implementation

#### • Smart Positioning for IOT Application

#### • Stock Prices Prediction with ML

#### • ESP32 , IOT project (Remote Controller for electronic scooter)

## ACHIEVEMENTS

2011 Ranked 1<sup>th</sup> / 76

2016 Ranked 4<sup>th</sup> / 200,000

2021 GPA: 3.76/4.00 (Ranked 45<sup>th</sup> / 162)

NODET Entrance Exam

National University Entrance Exam

Bachelor of Science in Electrical Engineering