

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 • \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 1th /76

2016 Ranked 4th /200,000

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

2021 Ranked 14th /10,000

NODET Entrance Exam

University Entrance Exam for Bachelor Degree

Bachelor of Science in Electrical Engineering

University Entrance Exam for Master Degree