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
Data Mining on Graphs

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 clustring cars with similar driving patterns using LSH
  3. Finding important points(Traffic cameras) using PageRank
  4. Clustring 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 $1^{th}/76$	NODET Entrance Exam
2016	Ranked $4^{th}/200,000$	University Entrance Exam for Bachelor Degree
2021	GPA: 3.76/4.00 (Ranked $45^{th}/162$)	Bachelor of Science in Electrical Engineering
2021	Ranked $14^{th}/10,000$	University Entrance Exam for Master Degree