Sasan Vahidinia

 \Box +98 (917) 295 7370 ☑ saasanvhn@gmail.com in Sasan-Vahidinia Sasanvhn

Research Interests

- Algorithms and Optimization
- Big Data Analytics
- Explainable Artificial Intelligence
- Deep Learning

Education

2018–2023 Bachelor's, Shiraz University, Shiraz - Iran, Computer Engineering GPA: 3.05/4 (15.51/20)

Honors

- Top-tier ranking in the Iranian university entrance exam, surpassing 98.5% of over 144,500 participants
- Received a national undergraduate full scholarship.

Academic Projects

- Document Formatting Automation System Using Python Essay/Paper formatting checker based on university standards.
- Implementation of Circular-Rotation Mode in Verilog and Python The circular-rotation mode of the CORDIC machine was to be implemented on FPGA, simulated in Python and written in Verilog.
- Implementation of MIPS CPU in Xilinx a complete CPU with MIPS architecture
- Temperature Monitoring System Using C Controling/Regulating the temperature of a particular environment using AVR micro-controllers.
- o Implemented Linear Regression, Gradient Descent, Logistic Regression, Bayes Classifier in Python
- Cisco Device Security Configuration Lab Exercises Using Cisco **Packet Tracer**
- o Implementation of Python to C Compiler in Python
- Scheduling Algorithm for Operating System in Java
- Elementary Blockchain Implementation in Python

 Patients, Hotel Management Systems and Web Based Remote Teaching/Conferencing System in Java, Flutter and Python

Courses

- Artificial Intelligence (B+)
- Numerical Analysis Methods (B+)
- Statistical Analysis (A)
- Principles of Operating System Design (A)
- o Computer, Logic Circuit, Computer Arc., Microprocessor Labs (Ranked 1st)
- GPU Programming

Teaching Experiences

Fall 2022 Teaching Assistant for Principles of Database Design

Industry Experiences

Spring 2023 Back-End Developer, Top Super Application

Worked on a platform for a wide range of tourism, financial, automotive, and tech services using FastAPI

Summer 2022 **Android Developer**, Software Development Laboratory at Persian Gulf University

Implemented a local Twitter clone with Flutter

Test Scores

o **IELTS:** 7.0 (L: 8.0, R: 6.0, W: 6.5, S: 7.0)

Technical Skills

- **Programming Languages:** Python, Java, C, C++, Verilog, Django, Flutter, FastAPI, Javascript, Microsoft, SQL server.
- Libraries: Tensorflow, PyTorch, NLTK, OpenCL, pthreads, CUDA, OpenMP.
- o Miscellaneous: gcc, Git, AndroidStudio IDE.