

# Sina Heidari

✉ sinaheidari2000@outlook.com | 🏠 heidarisina.github.io | 📷 heidarisina | 🌐 sinaheidari2000

## Education

### B.S. in Electrical Engineering

AMIR KABIR UNIVERSITY OF TECHNOLOGY (TEHRAN POLYTECHNIC)

Tehran, Iran

September 2018 - Present

- Thesis : Dynamic Full Stack Developing of Tehran's Stock Market and Cryptocurrency's Market
- Supervisor : Dr.JahanShahi

## Research Interests

- Cyber Security
- Network Security
- Information Security
- Computer Communication Network Design and Analysis
- Cloud and Computing
- Software Engineering
- Programming Languages
- Software Developing
- Artificial Intelligence

## Skills

<b>Programming / Scripting language</b>	C/C++, C#, JavaScript, Python, TypeScript, Java, GO, Bash Script, SQL, Flutter, VHDL, HTML, CSS, PHP, Assembly, $\text{\LaTeX}$
<b>Libraries / Frameworks</b>	React, Redux, Next.JS, jQuery, STRApi, GraphQL, Vue, SASS, React Native, Expo.JS, Electron, Express.JS, Flask, PyQt, Numpy, Matplotlib, Pandas , .Net
<b>Tools / Software</b>	NodeJs, Docker, Android Studio, PGAdmin, MySQL, PostMan, Git, Unity, Unreal Engine, QTDesigner, Figma, Adobe Photoshop , Adobe Illustrator, Adobe After Effect, Adobe XD, Adobe inDesign, Adobe Audition, Proteus
<b>Kali Tools</b>	Metasploit, Evilgrade, Maltego, Veil-Evasion, Airplay-ng, Aircrack-ng, AirDump-ng , NMAP, Wire-Shark, Crunch, Reaver, Netdiscover, Arpspoof, BetterCap, John the Ripper, DNSMap, HashCat, SQLMap, NCrack , Medusa , RainbowCrack , WPSan
<b>Operating System</b>	Kali Linux , Ubuntu, Tails Linux, Parrot Linux, Windows

## Selected Projects

### Company Management App

Desktop Programming

AN APP FOR MANAGEMENT EMPLOYEES AND TASK OF A COMPANY

- Designed and Developed By PyQt and QTDesigner
- Save Every Add , Edit or Delete Action on a Local Database

### Smart Farming

Web Developing

IMPLEMENTATION A FULL CONTROL ON A SMART FARM OR GARDEN

- As a Part of the Team I Worked on Sending and Reserving Data From Website Based on JQuery and Flask
- The Whole Project Based on Website , Matlab, Proteus, Raspberry pi

### Web Games

Web Developing

WEB GAMES AND APPS BASED ON VANILLA JAVASCRIPT OR CANVAS OF HTML

- Games Like Maze, Breakout, Lines & Dots, Shootout, Ping Pong
- Apps Like Black Board, Piano, Weather Forecast

### Cloned APPs

Web Developing

CLONED 4 OF THE POPULAR SOCIAL MEDIA FROM SCRATCH

- Based on React, Redux, Firebase or MongoDB as Database
- Popular App Like WhatsApp , TikTok, Discord, Twitter

## Phone's App

Phone Programming

APPS LIKE PERSONAL EXPENSES, SHOPPING, MEALS RECIPES AND ... FOR BOTH ANDROID AND IOS OPERATING SYSTEM

- Based on React Native or Flutter and Google Services
- Using MongoDB and Firebase for Database

## CPU Design

Hardware

MEDIUM CPU DESIGN WITH IT'S ASSEMBLER USING VHDL

- Has ROM, RAM, Cordic (Our Implementation), Timer, Sensor/I/O
- Assembler Based on Python and Put Machine Code to ROM

## Image Processing

Machine Learning

BASIC IMAGE PROCESSING USING STM MICROPROCESSORS X-CUBE AI MODULE

- Training a Model Using TensorFlow
- Process and Making h5 and tflite File for Using in STM

## NLP

Machine Learning

EMOJI DETECTION ON TWEET EVAL DATABASE

- Training a Model Using sklearn
- Process Every Character and Labels for Detection

## Courses

---

- **Advanced Programming**
- **DSP**
- **Data Structures and Algorithms**
- **Machine Learning**
- **Electronic banking**
- **Programmable Logic Circuits**
- **VLSI System Design**
- **Microprocessor Systems and Interfaces**
- **Computer Architecture**
- **Ethical Hacking**
- **Hacking Using Rooted System**
- **Cyber Security**
- **Anonymity, Privacy and Security**
- **Laser Electronics**

## Teaching Experience

---

### Sub-TA

Tehran, Iran

TEACHING ELECTRONICS II

January 2022 - June 2022

### Programming Teacher

Tehran, Iran

PRIVATE TEACHER FOR WEB AND PHONE DEVELOPING

January 2021 - Present

## Linkedin Skill Assessments Badge

---

- **C**
- **C++**
- **C#**
- **Python**
- **JavaScript**
- **Git**
- **Node.Js**
- **React.Js**
- **HTML**
- **CSS**

# Language Skills

---

Persian	Native
English	Professional Working
German	Elementary