

# Sina Heidari

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## Education

### B.S. in Electrical Engineering

AMIR KABIR UNIVERSITY OF TECHNOLOGY (TEHRAN POLYTECHNIC)

Tehran, Iran

September 2018 - Present

- GPA = 3.5/4
- 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
- Internet of Things

## Skills

<b>Programming / Scripting language</b>	C/C++, C#, JavaScript, Python, TypeScript, Java, GO, Bash Script, SQL, Flutter, VHDL, HTML, CSS, PHP, Assembly, $\LaTeX$
<b>Libraries / Frameworks</b>	React, Redux, Next.JS, jQuery, STRApi, GraphQL, Vue, SASS, React Native, Expo.JS, Chart.JS, Electron, Express.JS, Flask, PyQt, Numpy, Matplotlib, Pandas, .Net
<b>Tools / Software</b>	NodeJs, Docker, Android Studio, PGAdmin, MySQL, PostMan, Git, MATLAB, Unity, Unreal Engine, QTDesigner, xilinx vivado 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, WPScan
<b>Operating System</b>	Kali Linux, Ubuntu, Tails Linux, Parrot Linux, Windows

## Honors

- Graduated among the **Top 3 students** from **Electronic major** in EE faculty of AmirKabir University of Technology (Ranked within the top 3 Universities in Iran)

## 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 Firebace 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 Baced on Python and Put Machine Code to ROM

## Image Processing

*Machine Learning*

BASIC IMAGE PROCESSING USING STM MICROPROCESSORS X-CUBE AI MODULE

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

## NLP

*Machine Learning*

EMOJI DETECTION ON TWEET EVAL DATABASE

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

## Courses

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- **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

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### TA

*Tehran, Iran*

TEACHING ADVANCE PROGRAMMING

*January 2022 - June 2022*

### Sub-TA

*Tehran, Iran*

TEACHING ELECTRONICS II

*January 2022 - June 2022*

### Sub-TA

*Tehran, Iran*

TEACHING COMPUTER ARCHITECTURE

*September 2022 - June 2023*

### Sub-TA

*Tehran, Iran*

TEACHING LOGIC CIRCUITS

*January 2023 - June 2023*

### Programming Teacher

*Tehran, Iran*

PRIVATE TEACHER FOR WEB AND PHONE DEVELOPING

*January 2021 - Present*

## LinkedIn Skill Assessments Badge

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

## Language Skills

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- Persian** Native  
**English** Professional Working  
**German** Elementary