

PARAND KHALILI

parandkhalili@gmail.com

GitHub

LinkedIn

EDUCATION

Amirkabir University of Technology

BS Degree

Department of Computer Engineering

Sep 2022 - Present

Overall GPA: 17.98/20

PROFESSIONAL EXPERIENCE

Python bootcamp at Sematec

Developing a desktop app. Got familiar with core concepts of python and SQL.

Sep 2024 - Dec 2024

HONORS AND AWARDS

- **National Countrywide University Entrance Exam(aka Konkour), Iran**

2022

Rank top 0.1% in among more than 150,000 participants.

NOTABLE PROJECTS

TwitJava

Developed a multi-threaded Twitter simulation using JavaFX, featuring login, registration, follow/unfollow, tweeting, retweeting, liking, profile management, blocking, and a dynamic timeline. Ensured smooth user interaction through effective concurrency management and intuitive UI design.

xv6 operating system

added custom system calls and implemented multithreading capabilities. developed using C on a Linux environment with docker.

English learning website

Developed a microservice for an English learning website ("learn with pictures") , enabling users to learn english through visual aids and track their progress. Built the backend using Python Django , the frontend with javascript, and utilized a cloud-based database for efficient data storage and progress monitoring.

Bank System

Developed a Python banking system simulation with Tkinter UI and SQLite database integration.

Chatroom

Developed a chatroom in Python with MySQL, featuring account management, contacts, groups, and private chats.

Fighting Game

Developed and simulated a two-player fighting game in Verilog using FPGA, featuring kick, jump, and movement actions, with each player having three lives.

Linear Solver

A tool for solving linear equations and calculating determinants using Gaussian elimination, recursive algorithms and other techniques.

TEACHING ASSISTANT EXPERIENCE

Advanced Programming, H. Zeinali	<i>Spring 2024</i>
Applied Linear Algebra, E. Nazerfard	<i>Fall 2024</i>
Applied Linear Algebra, M.haghirChehraghani	<i>spring 2025</i>
Software Engineering, E.alirezaei	<i>spring 2025</i>
Electric and electronic circuits , A.Farghadan	<i>spring 2025</i>

SKILLS AND QUALITIES

Programming Languages: Python, C++, C, Java, SQL, VHDL, Verilog, \LaTeX .

Libraries: Numpy, Matplotlib, pandas, javafx

Frameworks: Django

DevOps: Git, Linux, docker

Software Engineering: Familiar with object-oriented core concepts and software engineering Design patterns , microservice , agile methods , scrum and unit testing.

Theoretical Background: Mastered core concepts in linear algebra, probability theory and statistics; Familiar with algorithm design; Expert with SQL and DBMS major concepts; Familiar with computer architecture and OS main ideas.

Soft Skills: Team Collaboration, Emotional Intelligence, Time Management, Adoptability, Problem Solving

Languages: English (Full professional proficiency), Persian (Native).