

# Kiana Sherafati

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Tehran, Iran

## EXPERIENCE

- **Python bootcamp at Sematec** August 2023 - November 2023  
Tehran, Iran
  - Developed a User Management desktop app
  - Got familiar with core concepts of python and SQL
- **ICDL course in Technical and Vocational Training Organization** August 2022 - October 2022  
Tehran, Iran
  - Got proficient in Microsoft Word, PowerPoint, Excel and Access





## TEACHING ASSISTANT EXPERIENCE



- **Applied Linear Algebra** Fall 2024  
Professor E.Nazerfard
- **Principles of Database Design** Fall 2024  
Professor Z.Poorbahman

## EDUCATION

- **Amirkabir University Of Technology** September 2022 - Current  
*Bachelor's Degree in Computer Engineering* Tehran, Iran
  - \* GPA: 16.62/20.00
- **National Organization For Development Of Exceptional Talents(SAMPAD)** September 2019 - September 2022  
*Secondary Education* Tehran, Iran
  - \* GPA: 19.88/20.00

## PROJECTS

- **Twitter: [JAVA language]** June 2023  
*Tools: [Intellij IDEA, SceneBuilder]* 
  - \* Developed a multi-threaded Twitter simulation using JavaFX
  - \* featuring login, registration, follow/unfollow, tweet, retweet, like, profile management, blocklist, and a dynamic timeline
  - \* Ensuring smooth user interaction through effective concurrency management and intuitive UI design
- **Fighting Game: [Verilog language]** January 2024  
*Tools: [ISE Designe Suite]* 
  - \* Developed and simulated a two-player fighting game in Verilog
  - \* featuring kick, jump and movement actions with each player having three lives
  - \* Implementing on FPGA board
- **Chatroom: [Python language]** June 2024  
*Tools: [Pycharm, DataGrip, MySQL]* 
  - \* Developed a chatroom in Python with MySQL
  - \* featuring user management, contact lists, group and private chats and useful views
- **User Management: [Python language]** July 2024  
*Tools: [Pycharm, SQLiteStudio]* 
  - \* Developed a Python User Management system simulation with Tkinter UI and SQLite database integration

- **XV6 Operating System: [C language]** Fall 2024  
*Tools: [VS Code, Docker]* 
  - \* Enhanced the XV6 operating system by adding new system calls and enabling multithreading functionality
- **English Learning Website: [Python language]** Fall 2024  
*Tools: [VS Code, Django, JavaScript, Cloud Database]* 
  - \* Built a microservice for learning words with pictures, featuring add, delete, edit, and search functions by category and level.
  - \* Developed user progress tracking with reports and wrote tests to ensure system reliability.

## SKILLS

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- **Programming Languages:** Python, C++, C, Java, SQL, VHDL, Verilog, LATEX
- **Microsoft Apps:** Word, PowerPoint, Excel, Access
- **Database Management Systems:** MySQL, SQLite
- **DevOps & Version Control:** Git, Docker
- **Software Engineering:** Object-oriented Programming, Design Patterns, Microservices, Agile and Scrum, Unit Tests, Django

## HONORS AND AWARDS

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- **University Entrance Exam** June 2022  
*National Organization of Educational Testing*
  - \* Ranked 163 among 145615 participants in Iranian Nationwide Entrance Exam for Bachelor's Studies
- **Lifeguard Qualification** January 2024  
*Life Saving and Diving Federation*
- **Medallist in collegiate swimming Competition** August 2024  
*The 16th cultural and sports Olympiad for students of Iranian universities*
  - \* Gold and Bronze medallist in individual and relay races

## SELECTED COURSES

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- Computer Architecture: 17.51
- Applied Linear Algebra: 17.88
- Principles of Database Design: 19.43
- Data Structures and Algorithms: 19.5
- Differential Equations: 20
- Engineering Statistics: 20

## ADDITIONAL INFORMATION

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**Languages:** Persian (Native), English (Advanced)