

# Koorosh Ahmadi

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## Education

- BS    Roudehen azad university**, biotechnology Sept. 2019 to May 2024
- GPA 16.88/20
  - last semester GPA: 4.0/4.0
  - **Coursework:** Basics of Nanotechnology , Large Scale Production, Cell And Tissue Culture, Biochemistry, Molecular Cell Biology.
- MS    Tehran Medical Science of Islamic Azad University**, Industrial Microbiology Sept. 2024
- last semester GPA 4.0/4.0
  - **Coursework:** Ecology of Microorganisms , Bioinformatics, Prokaryotic Genetics, Physiology of Microorganisms.

## Interests

- Biotechnology in Rare Disease
- Bioinformatics
- Molecular Biology

## Experience

- Saghi Medical Laboratory**, Assistant to the Medical Laboratory, Intern Iran 2021
- Collected and processed blood samples from patients for various diagnostic tests.
  - Conducted urine and stool cultures to identify and analyze potential infections or abnormalities.
  - Performed sperm counts and related evaluations for fertility evaluations.

## Technical Skills

- Skills:** Real Time PCR, Sequence alignment  
**Programming Languages and Tools:** Python, R
- **Python:** Proficient in Biopython, Tkinter, Pandas, and Numpy
  - **R:** Proficient in data analysis and visualization using libraries such as ggplot2, Limma, Heatmaply, GEOquery, and Entrez
  - **Data Handling:** Experienced in cleaning, preprocessing, and managing large datasets
  - **Statistical Analysis:** Skilled in hypothesis testing, multiple testing correction, and dimensionality reduction (PCA)
  - **Visualization:** Proficient in creating publication-quality figures (scatter plots, heatmaps, volcano plots)
- Software:** LPIC, SPSS, BioEdit

## General Skills

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**Programming Languages and Tools:** Markdown, HTML, Bash, LaTeX, CSS

**Software:** Adobe Premiere Pro, DaVinci Resolve, Office Suite, LPIC, Vim, Elementor, Wordpress

## Technical Projects

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- **Genomic Data Analysis:** [This project uses Biopython for genomic sequence alignment and mutation detection.](#)
- **Biopython Sequence Fetcher:** [Simple app for fetching and displaying DNA sequence data from NCBI](#)

## General Projects

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- **Minesweeper Game:** [Simple Implementation of the Classic Minesweeper Game](#)

## General Experience And Awards

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**Cell Phone Board Repair Course (2021):** Asangsm Company

- Specialization in iPhone Hardware and Software Repair.
- Expertise in Android Hardware and Software Repair.
- Proficiency in General Electronics Diagnostics.

**Laptop Repair Course (2022):** Avajang Company

- Pulse Width Modulation (PWM) Circuit Repair.
- Audio Circuit Repair.
- Onboard CPU and GPU Replacement.
- Comprehensive Laptop Motherboard Repair.

**CompTIA Network + :** Kahkeshane Noor

- Gained knowledge of network fundamentals, including OSI model and TCP/IP protocols.
- Acquired hands-on experience in configuring routers, switches, and access points.
- Developed skills in network security principles and best practices.
- Mastered troubleshooting methodologies for efficient network issue resolution.

## Certificates

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- [Practical Statistics and Probability \(Quera\) — Perfect](#) — Comprehensive coverage of descriptive statistics, probability theory, distribution functions, hypothesis testing, and regression analysis.
- [Introductory Python Programming \(Quera\) — Perfect](#) — Fundamentals of Python programming including data types, control flow structures, functions, modules, file I/O, and use of standard libraries for data manipulation.

## Language Proficiency

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**Farsi:** Native

**English:** IELTS (to be taken)