

# SEYED ALI (SORUSH) VAKILZADEH HATEFI

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GitHub    Telegram

## SUMMARY

4th-year Computer Engineering student at Sharif University (GPA 3.73/4). Expected to graduate in Feb 2026. Experienced in software, data, and AI projects (C/C++, Java, Python, PostgreSQL, React). Seeking a junior/internship developer role or a data/AI engineering internship.

## EDUCATION

### Sharif University of Technology

Sep 2022–Present

B.Sc. in Computer Engineering; Minor in Economics

GPA: 3.73/4.0 (18.15/20)

Selected Coursework: Advanced Programming (20/20), Probability & Statistics (20/20), Artificial Intelligence (19.6/20), Data Structures & Algorithms (18.4/20), Linear Algebra (19.1/20), Macroeconomics (19.9/20), Physics 1 & 2 (credited due to National Olympiad Silver Medal)

## SKILLS

**Programming:** C/C++, Java, Python, JavaScript, SQL (PostgreSQL)

**Web:** React, Angular, .NET, Bootstrap, Sass; REST APIs

**Mobile Development:** Kotlin, Swift

**Data/AI:** NumPy, Pandas, scikit-learn, basic PyTorch, R

**Systems/Tools:** Git, Linux, Verilog, Quartus, Proteus

## SELECTED PROJECTS

**Crusader3 (Java)** — 2D game with local multiplayer networking; ~10k LOC. GitHub

**Kotlin & Swift** — Android Notes & To-Do list app. GitHub

**Data Structures & Algorithms** — optimized implementations (AVL, Fenwick, hashing, matching, DP, D&C) with problem briefs in code comments. GitHub

**AI mini-projects** — A\* algorithm; connect-4 minimax ai, with >70% win rate vs baseline; CSP with simulation of a robot's situation; Reinforcement Learning pathfinding; Simulation of smart grid power allocation with different queue policies and Q-learning optimization. GitHub

**ML mini-projects** — regression/classification baselines with unsupervised learning; Classification with KNN and PCA; neural networks with Adam and momentum optimizers; NLP with skip-gram method and Transformers on a small Wikipedia subset. GitHub

**Bioinformatics, AML Microarray Re-analysis (R)** — Replicated GPL96/GSE9476 pipeline (limma, FDR < 0.05); found 11 genes with 4 overlapping the paper's 8. GitHub

## WORK EXPERIENCE

### Sharif University of Technology

Fall 2024 – present

*Teaching Assistant*

*Tehran, Iran*

- Probability & Statistics (Fall 2024): authored project assignments and revised solutions.
- Computer Simulation (Fall 2025): Assigned to upcoming ...

**Salam School Olympiad***Teacher and Mentor*

Fall 2022 – Spring 2024

*Tehran, Iran*

- Tutor, held weekly individual and group problem-solving classes regularly.

**Kanoon Farhangi Amoozesh Ghalamchi***Teacher and Mentor*

Summer 2022 – Spring 2023

*Tehran, Iran*

- Advised ~20 students weekly; 70% advanced to the next year's program.
- Conducted weekly diagnostics and designed individualized study plans.

**HONORS AND AWARDS**

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**National Physics Olympiad** — Silver Medal (2021)**Iran National University Entrance Exam** — Rank 87 (Region 1: 62) (2022)**Full merit scholarships** (Grades 10–12; Undergraduate program)