

Roozbeh Sharifnasab

✉ rsharifnasab@gmail.com • 🌐 rsharifnasab.ir • 🔗 linkedin.com/in/rsharifnasab 📄 github.com/rsharifnasab

Education

M.Sc (Computer Software) 2022-2024 (Expected)

Shahid Beheshti University

- **Average: 18.53/20 (GPA: 3.82/4)**

- Selected courses:

Seminar (19.2/20) Advanced Software Testing, Debugging and Repair (19/20)
Software Architecture (19.39/20) Complex Dynamic Networks (19.54/20)

- Approved thesis proposal: **Code Reviewer Recommendation with Graph-based approach**

- Under supervision of Dr. Aliakbary

B.Sc (Computer Engineering) 2018-2022

Shahid Beheshti University

- **Average: 17.7/20 (GPA: 3.71/4)**

- Selected courses:

Fundamentals of Programming (20/20) Advanced Programming (20/20) Principles of Compiler Design (17/20)
Operating Systems (18.3/20) Internet Engineering (20/20) Computer Networks (20/20)
Information Retrieval & Web search (18.4/20) System Analysis & Design (19/20) B.Sc Project (20/20)

- B.Sc Project: A utility for TAs which helps them judge students' codes more flexibly

- Under supervision of Dr. Vahidi

Diploma (Mathematics & Engineering) 2014-2018

Allameh Helli 3 High School

- Average: 19.72/20

- Affiliated with the National Organization for the Development of Exceptional Talents (NODET).

Teaching Assistant

- **Software Architecture (x1) Fall 2023**

Shahid Beheshti University

- Under the supervision of **Dr. Aliakbary**
- Grading submissions

- **Operating Systems (x5) Since Fall 2021**

Shahid Beheshti University

- Under the supervision of **Prof. Moghadam**
- Head TA, Develop assignments, Grading submissions

- **Introduction to programming (x6) Since Fall 2019**

Shahid Beheshti University

- Under the supervision of **Dr. Aliakbary** and **Parham Alvani**
- Head TA, Develop assignments, Hold TA classes, Grading submissions

- **Advanced programming (x9) Since Spring 2020**

Shahid Beheshti University

- Under the supervision of **Dr. Aliakbary** and **Dr. Vahidi** and **Dr. Mosharraf**
- Head TA, Develop assignments, Hold TA classes, Grading submissions

- **Internet Engineering (x1) Spring 2021**

Shahid Beheshti University

- Under the supervision of **Parham Alvani**
- Head TA, Develop assignments, Hold TA classes, Grading submissions

- **Principles of Compiler Design (x2) Spring 2022**

Sharif University of Technology

- Under the supervision of **Dr. Mohammad Reza Bahrami**
- Project automatic judgment

Presentations

- [Backend Development with Golang](#) at Quera's Software Engineering bootcamp (2023)
- [Python basics](#) at Quera's Software Engineering bootcamp (2023)
- [Linux crash course](#) at Shahid Beheshti university (2022)
- [Intro to Threading](#) in Advanced Programming TA class (2022)
- [Brief Intro to Functional Programming](#) in Khaje-Nasir-Toosi university (2021)
- [How to Program in Java](#) for junior students (Summer 2020)
- [Git crash course](#) in Advanced Programming class (2020)
- [Which laptop to buy](#) in the First-year students' ceremony (2020)
- [Exception Handling best practices](#) in Advanced Programming TA class (2020)

Work Experience

- [Software Engineer \(Back-End\)](#) at [Snapp](#) - Developed microservice-based software enhancing system scalability and reliability with Go (Sep 2023-current)
- [Technical Content Developer](#) at [Quera](#) - Design **programming challenges** for Go & Java. Teach Linux & Python & Go & Echo (2021-current)
- [Technical Content Developer](#) at [Javacup](#) - Produce content about Java. **Held Javacup Exam** twice. (2019-2022)
- [Back-End intern](#) at Asta. Develop maintainable apps with JAX-RS & Spring Boot. (Summer 2021)

Skills

- Programming Language (Fluent): Python, Go, C, Java, Bash
- Programming Language (Familiar): SQL, JavaScript, Elixir, Haskell, Lua
- Frameworks: Echo, Fiber, JAX-RS, Junit
- Libraries: Networkx, Numpy, Pandas, Matplotlib, Seaborn, Beautiful Soup, Scikit-learn, PyTorch, Testify
- Tools: Linux, Git, Curl, Swagger, Docker, Redis, Prometheus, Graphana, NATS, OpenShift, Make, Maven

Languages

- Persian: Native
- English: Proficient (Academic IELTS: Overall 7.5, Speaking:7.0 Writing:6.0 Listening:8.5 Reading:9.0)

Key Projects

- [Fault Localization with Complex Network techniques](#) Jun-Jul 2023
(Test, Debug and Repair Software)
- Keywords: Program Slicing, Code Coverage, Fault Localization, Centrality Measures, Complex Network
- [Distributed Code Judge](#) Sept 2021-Aug 2022
(B.Sc Project / Guide: Dr. Vahidi)
- A utility for **TAs** which helps them judge students' codes more flexibly than traditional judges.
- Received the **best project award** in fall 2022 by SBU's computer faculty.
- Keywords: TA, Automatic Judge, Script, Programming, Source code
- [Link State Simulation](#) Jun-Jul 2021
(Computer Networks)
- Implementing Manager and Router programs in Go
- [Dummy HTTP Server](#) Mar-Apr 2021
(Computer Networks)
- Implementing dummy HTTP server in Go
- [Dummy HTTP client](#) Jan 2021
(Internet Engineering)
- Implementing a dummy HTTP client in pure Java
- [Sleeping Barber](#) Nov 2020
(Operating Systems)
- Sleeping barber Implementation in C
- [Roulang Compiler](#) Apr-Aug 2020
(Compiler Principles)
- Compiling Roulang source code to Java ByteCode with ASM
- [Vi Clone](#) Jan-Jul 2020
(Data Structures)
- Simple Vi-like editor with Piece Table and Trie Tree (Java)

Achievements/Awards

- Awarded the **best B.Sc's Thesis-Project** award by SBUs computer faculty (2022)
- Secured 11th/130 in **National Computer Olympiad**. Participants were top students (By GPA) of top universities in Iran. (2022)
- Granted **merit-based master's scholarship** by Shahid Beheshti University. (2022)
- Secured 8th place in **Quera Connect** contest in Go programming language. (2021)
- Secured 14th place in the **Snapptrip** internship contest in Java programming language. (2020)
- Earned **Hacktoberfest** prize for contributing to open-source software
- Secured 3rd/190 place in the **Javacup** contest. Which led to a **Java Certified Professional Developer** certificate. (2019)
- Secured 1st place in first-year and second-year students' contest at Shahid Beheshti university. (2018)
- Ranked 1101th in the National entrance exam for B.Sc Studies among 120,000 students. (2018)
- Reached Semi-final in National Mathematics & Computer Olympiad. (2016)
- Qualified in the National Organization for Development of Exceptional talents (NODET) entrance exam. (2011)