Roozbeh Sharifnasab

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Education

M.Sc (Computer Software)   **2022-2024 (Expected)**
Shahid Beheshti University

○ **Average: 18.22/20 (GPA: 3.77/4)**

○ 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 **TA**s 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)