

Shahryar Soltanpour

(403) 827-9737
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Software Engineer

Portfolio: sh-soltanpour.github.io
github.com/sh-soltanpour
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SKILLS

Programming Languages	Python, Java, Kotlin, Golang, Javascript, C, C++
Software Engineering	Object-Oriented patterns, Agile and Devops methodologies
Site Reliability Engineering	Docker, Kubernetes, Nginx, Linux
Big data / databases	Cassandra, Kafka, MongoDB, MySQL, PostgreSQL, Elasticsearch
Web frameworks	Django, Spring boot
Tools	Git, \LaTeX
Frontend	ReactJS, Angular
Languages	English, Persian

TECHNICAL EXPERIENCE

Software Engineer / Real Estate Aug 2019 — Dec 2020
Divar Company Tehran, Iran

- Providing service to more than 40 million users.
- Development of designed features, create merge requests, and deploy them on production servers.
- Maintaining services. As the owner of some services, I had to make sure that my services are operating properly 24/7.
- Reviewing codes. As the system owner, I was responsible to evaluate merge requests on my owned services then merge and deploy them.
- Designing system for new features, by writing 'design docs' and implementing them.
- Member of the interview committee. Attending interviews with new people who wanted to enter the company, and helping the company hire software engineers.

Software Engineer / Mediaad Jun 2018 — Aug 2019
Tapsell Company Tehran, Iran

- Designed and implemented a video player platform with ad-integration for website owners.
- Implement 'retargeting' feature. Ads using this feature will have about 10 times more chance to be clicked-through and this caused a very significant increase in the company's revenue.

Software Engineer / Backtory Jan 2018 — Jun 2018
Tapsell Company Tehran, Iran

- Backtory is a CDN, Storage and video streaming service.
- Tested various tools for load balancing to find the best method for our case, such as HAProxy.
- Implemented features such as the ability to provide custom 404 error pages for each CDN user.

Software Engineer Intern / Rahnema College Jul 2017 — Aug 2017
Rahnema Company Tehran, Iran

- Launched 'Unagi', a location based social network application.
- Developing iOS and Android applications using react-native and react-redux.
- Developing backend using Node JS Express.
- Learning how to use git and Scrum methodology.

EDUCATION

Master of Science in Computer Science, University of Calgary Jan 2021 — Present
GPA: 3.85 / 4

Bachelor of science in Computer Engineering, University of Tehran Sep 2015 — Jun 2020
GPA: 17.43 / 20

RESEARCH EXPERIENCE

Graduate Research / University of Calgary Jan 2021 — Present
Supervisor: Professor Robert Walker Calgary, Canada

- The subject of my research is more about working on multilingual codes specially used in industry, and also maintaining a change propagation framework written in CSharp. This framework supports multiple languages such as Java, CSharp, Python and Transact-SQL.

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Undergraduate Research / University of Tehran

Jul 2019 — Oct 2019

Supervisor: Professor Fatemeh Ghassemi

Tehran, Iran

- Using java language to compile and run Rebeca codes with different policies and measure some metrics to find the best algorithm. Rebeca (Reactive Objects Language) is an actor-based language with a formal foundation, designed in an effort to bridge the gap between formal verification approaches and real applications. It can be considered as a reference model for concurrent computation, based on an operational interpretation of the actor model. It is also a platform for developing object-based concurrent systems in practice.

ACTIVITIES

- President of Computer Science Graduate Society, University of Calgary
Received 900 CAD funding from GSA and held multiple events for students. May 2021 — May 2022
- Graduate Student Council Representative, University of Calgary
Attending GSA monthly meetings as the computer science representative. May 2021 — May 2022
- Technical mentor in the summer of code event, University of Tehran
Teaching Nginx, Spring boot and Kotlin to mentees to develop a file storage application for the university students. Jul 2018 — Sep 2018

HONORS AND AWARDS

- Ranked 241st (regional rank), and 368th (national rank) in the National Universities Entrance Examination among more than 318,000 contestants 2015
- Ranked 3rd among Undergraduate Students in Software Engineering College and winner of FoE (Faculty of Engineering) prize, University of Tehran 2015-2017

NOTABLE PROJECTS

- Implement a web-based freelancing application for Internet Engineering course. Using Java for back-end and React for front-end (Source Code: [Backend](#) and [Frontend](#))
- Implement a crawler and data-analysis on Lululemon website as the main project of Datamining and Social Netowrk course using Scrapy, Gephi and Networkx ([Source code](#))
- Implement Splitwise application using smart contracts using technologies such as Truffle, Solidity language and web3.js ([Source Code](#))
- Implement a compiler for an actor based language named Atalk in compiler design course. ([Source Code](#))
- Implement a location based social netowrk named Unagi during Rahnema College internship. Backend was coded using NodeJs Express. Android and iOS applications were coded using React Native. (Source Code: [Backend](#) and [Frontend](#))

TEACHING ASSISTANTSHIP

SENG 300 (Introduction to software Engineering)

Winter 2021, 2022, Fall 2022

Instructor: Professor Robert Walker

University of Calgary

- Responsible for grading assignments and group projects for 3 tutorial sessions (Each containing 28 students)

Internet Engineering

Spring 2020

Instructor: Dr. Ehsan Khamespanah

University of Tehran

- Chief TA of the course. Responsible for managing all course projects to be designed, delivered and graded.

Systems Analysis and Design

Spring 2019

Instructor: Dr. Fatemeh Ghassemi

University of Tehran

- Chief TA of the course. Responsible for managing course projects, quizzes and homeworks.

In addition, I have 9 more experiences of being TA in courses such as **Compiler design**, **Artificial intelligence**, **Statistics** and **Data structure and algorithms**.