

# Shahryar Soltanpour

(403) 827-9737  
shahryar.soltanpour@gmail.com

## Software Engineer

Portfolio: [sh-soltanpour.github.io](https://sh-soltanpour.github.io)  
[github.com/sh-soltanpour](https://github.com/sh-soltanpour)  
[linkedin.com/in/soltanpour](https://linkedin.com/in/soltanpour)

### SKILLS

<b>Programming Languages</b>	Python, Java, Kotlin, Javascript, C++
<b>Software Engineering</b>	Object-Oriented patterns, Agile (scrum) and DevOps methodologies
<b>Site Reliability Engineering</b>	Docker, Kubernetes, Nginx, Linux
<b>Big data / databases</b>	Cassandra, Kafka, MongoDB, MySQL, PostgreSQL, Elasticsearch
<b>Web frameworks</b>	Django, Spring boot, Express.JS
<b>Tools</b>	Git, <del>TeX</del>
<b>Frontend</b>	React, Angular
<b>Languages</b>	English, Persian

### TECHNICAL EXPERIENCE

**Software Engineer** Aug 2019 — Dec 2020  
*Divar Company* Iran

- Developed the designed features, create merge requests, and deploy them on production servers.
- Maintaining services to ensure the owned services are operating properly 24/7.
- Review codes and evaluated merge requests on my owned services then merge and deploy them.
- Designing system for new features, by writing 'design docs' and implementing them.
- Interviewed and helped select software engineers.

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

- Designed and implemented a video player platform with ad-integration for website owners.
- Implement the 'retargeting' feature. Resulting in about 10 times more chances 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* 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* 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** Jan 2021 — Present  
*University of Calgary* Canada

- Investigated the use of multilingual codes especially in industry, and also maintaining a change propagation framework written in C#. This framework supports multiple languages such as Java, C#, Python and Transact-SQL. In addition, developed a system to guess the language of the input string based on keywords usage and then evaluating the guess using the language grammar.

**Undergraduate Research** Jul 2019 — Oct 2019  
*University of 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.

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## ACTIVITIES

- President of Computer Science Graduate Society, University of Calgary **May 2021 — May 2022**
- Graduate Student Council Representative, University of Calgary **May 2021 — May 2022**
- Technical mentor in the summer of code event, University of Tehran **Jul 2018 — Sep 2018**  
Teaching Nginx, Spring boot and Kotlin to mentees to develop a file storage application for the university students.

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## 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 Network 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 network 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](#))

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## TEACHING ASSISTANTSHIP

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|--|-------------------------------------|
| <b>Introduction to Software Engineering</b><br><i>University of Calgary</i>                            | <b>Winter 2021, 2022, Fall 2022</b> |
| • Oversaw group projects for 3 tutorial sessions (Each containing 28 students)                         |                                     |
| <b>Web based systems</b><br><i>University of Calgary</i>   | <b>Fall 2022</b>                    |
| • Oversaw group projects for 1 tutorial sessions (Containing 25 students)                              |                                     |
| <b>Internet Engineering</b><br><i>University of Tehran</i>   | <b>Spring 2020</b>                  |
| • <b>Chief TA</b> of the course. Managing all course projects to be designed, delivered and evaluated. |                                     |
| <b>Systems Analysis and Design</b><br><i>University of Tehran</i>                                      | <b>Spring 2019</b>                  |
| • <b>Chief TA</b> of the course. Managing course projects, quizzes and homeworks.                      |                                     |