

# 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)

## SUMMARY

Experienced software engineer with a 4-year track record in the industry. Adept in back-end development and knowledgeable in front-end development, data engineering, databases, and SRE, resulting in a comprehensive understanding of system design and the ability to design, implement, and deploy software systems from scratch.

## SKILLS

<b>Programming Languages</b>	Python, Java, Kotlin, Bash, Javascript, C++
<b>Software Engineering</b>	Object-Oriented patterns, Agile (scrum) and DevOps methodologies
<b>Site Reliability Engineering</b>	Docker, Kubernetes, HA Proxy, Nginx, Linux
<b>Big data / databases</b>	Cassandra, Kafka, MongoDB, MySQL, PostgreSQL, Elasticsearch, Redis
<b>Web</b>	Django, Spring boot, Express.JS, HTTP, REST
<b>Tools</b>	Git, JUnit, IntelliJ IDEA, $\LaTeX$
<b>Frontend</b>	React, Angular
<b>Languages</b>	English, Persian

## TECHNICAL EXPERIENCE

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

- Developed various features such as *infinite scrolling* using **Python**, **Django**, **PostgreSQL**, and **Redis**.
- Deployed the implemented features on the cloud using **Docker** and **Kubernetes**.
- Maintained services to ensure the owned services are operating properly 24/7. Working closely with **Grafana** and **Kubernetes**.
- Reviewed and evaluated merge requests on my owned services then merge and deploy them.
- Designed the system for new features, by writing *design docs* and implementing them.
- Interviewed and helped select software engineers.

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

- Designed and implemented a video player platform with ad integration for website owners, coded frontend using **Angular** and backend using **Kotlin**, **Spring Boot**, and **MongoDB**, and deployed using **Docker** and **Kubernetes**.
- Designed and implemented a system to extract useful information based on the videos watched in the mentioned video player, using **Kafka**, **Elasticsearch**, and **Kibana**.
- Implemented the *retargeting* feature that increased click-through rate by 10x, the conversion rate by 70%. Resulting in 10 times more chances to be clicked through and this caused a very significant increase in the company's revenue. **Kafka** and **CassandraDB** were the main components of this feature.

**Software Engineer** Jan 2018 — Jun 2018  
*Backtory (Tapsell Company)* Iran

- Backtory is a CDN, Storage, and video streaming service.
- Refactored CDN service codebase and update the programming from **Java** to **Kotlin**.
- Tested various tools for load balancing to find the best method for our usage, such as **HAProxy**.
- Implemented features such as the ability to provide custom 404 error pages for each CDN user using **Nginx**, **Kotlin**, and **Spring Boot**.

**Software Engineer Intern** Jul 2017 — Aug 2017  
*Rahnema College (Rahnema Company)* Iran

- Launched *Unagi*, a location-based social network application. Developed iOS and Android applications using **react native**.
- Developed backend using **Node JS Express**.
- Learned how to use **Git**, and **Scrum** methodology in a team.
- Source Code: [Backend](#) and [Frontend](#)

## 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

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## NOTABLE PROJECTS

- Implemented a compiler for an actor-based language named Atalk in the compiler design course using **Antlr4** and **Java**. ([Source Code](#))
- Implemented a web-based freelancing application for the Internet Engineering course. Using **Java Servlets** for the backend and **React.JS** for frontend (Source Code: [Backend](#) and [Frontend](#))
- Implemented a crawler and data analysis tool on the Lululemon website as the main project of the Datamining and Social Network course using **Scrapy**, **Gephi**, and **Networkx**. ([Source code](#))
- Implemented Splitwise application using smart contracts using technologies such as **Truffle**, **Solidity** language, and **web3.js** ([Source Code](#))

## EXTRACURRICULAR

- 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  
Teach Nginx, Spring boot, and Kotlin to mentees to develop a file storage application for university students.

## RESEARCH EXPERIENCE

**Graduate Research** Jan 2021 — Present  
*University of Calgary* Canada

- Investigated the use of multilingual codes, especially in industry, and also maintained 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 keyword usage and then evaluate the guess using the language grammar.

**Undergraduate Research** Jul 2019 — Oct 2019  
*University of Tehran* Iran

- Used 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 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.

## TEACHING ASSISTANTSHIP

**Introduction to Software Engineering** Winter 2021, 2022, 2023, Fall 2022  
*University of Calgary*

- Oversaw group projects for 3 tutorial sessions (Each containing 28 students)

**Web based systems** Fall 2022  
*University of Calgary*

- Oversaw group projects for 1 tutorial session (Containing 25 students)

**Internet Engineering** Spring 2020  
*University of Tehran*

- Chief TA** of the course. Managing all course projects to be designed, delivered, and evaluated.

**Systems Analysis and Design** Spring 2019  
*University of Tehran*

- Chief TA** of the course. Managing course projects, quizzes, and homework.