Shahryar Soltanpour

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

Software Engineer

https://sh-soltanpour.github.io
https://github.com/sh-soltanpour
https://linkedin.com/in/soltanpour

SUMMARY

Experienced software engineer with 4 years of history in backend development and knowledgeable in frontend development, data engineering, databases, and SRE, resulting in a comprehensive understanding of system design and the skill to design, implement, and deploy software systems from scratch. Experienced in working with companies that have a large user base, ranging from 50 million users at Divar to handling 1 billion requests at Backtory CDN.

SKILLS

Programming Languages	Python, Java, Kotlin, Bash, Javascript
Software Engineering	Microservices, Object-Oriented patterns, TDD, DDD, Agile (Scrum, Kanban) and DevOps
Site Reliability Engineering	Docker, Kubernetes, Nginx, Linux
Big data, databases	Cassandra, Kafka, MongoDB, MySQL, PostgreSQL, Elasticsearch, Redis
Web	Django, Spring boot, Express.JS, HTTP, REST, React, Angular
Network	TCP, UDP, Network security
Tools	Git, JUnit, IntelliJ IDEA
Languages	English, Persian

TECHNICAL EXPERIENCE

Graduate Research Assistant   Jan 2021 — Jul 2023
University of Calgary   *Canada*

- Introduced a programming language detection system, with 90% accuracy and 80% faster than baseline approaches.
- Expanded the support for new programming languages in an existing change propagation tool. Reduced code complexity by 50% compared to the baseline approach.

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

- Developed 30+ features such as *infinite scrolling* using **Python**, **Django**, **PostgreSQL**, and **Redis** for more than 50 million users.
- Maintained services to operate properly 24/7. Working closely with **Grafana** and **Kubernetes**.
- Reviewed, evaluated, and released 50+ merge requests on backend services.
- Wrote and reviewed *design docs* in the backend chapter with 20+ members for complex features.
- Interviewed and counseled select 10+ software engineers on the hiring committee.

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

- Created a video streaming platform, coded frontend using **Angular** and backend using **Kotlin**, **Spring Boot**, and **MongoDB**, and deployed using **Docker** and **Kubernetes** able to handle 1 million requests per day.
- Programmed a system to extract useful information based on the videos watched in the mentioned video player, using **Kafka**, **Elasticsearch**, and **Kibana**.
- Launched the *retargeting* feature, increased click-through rate by 10x, the conversion rate by 70%. **Kafka** and **CassandraDB** were the main components of this feature.

Software Engineer   Sep 2017 — Jun 2018
Backtory (Tapsell Company)   *Iran*

- Refactored CDN service from **Java** to **Kotlin** running in production with more than 1 million requests per day.
- Tested tools for load balancing to find the best method to handle a heavy load, such as **HAProxy**. Influenced the CDN service to be able to handle more than 1 billion requests per day.
- Coded features such as cache purge and providing custom 404 error pages for each CDN user using **Nginx**, **Spring Boot**, and **Kotlin**.

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

- Led a team of 5 using **scrum** to a location-based social network using **Javascript**, **react native**, and **Express.JS**.

EDUCATION

Master of Science in Computer Science, *University of Calgary*   Jan 2021 — Jul 2023
Bachelor of science in Computer Engineering, *University of Tehran*   Sep 2015 — Jun 2020

Shahryar Soltanpour

Software Engineer

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

https://sh-soltanpour.github.io
https://github.com/sh-soltanpour
https://linkedin.com/in/soltanpour

NOTABLE PROJECTS

- Designed a compiler for an actor-based language named Atalk using **Antlr4** and **Java** (Source Code).

- Coded a web-based freelancing application using **Java Servlets** for the backend and **React.JS** for frontend (Source Code: Backend and Frontend).

- Programmed a crawler and data analysis tool on the Lululemon website using **Scrapy**, **Gephi**, and **Networkx** (Source code).

- Implemented Splitwise application using smart contracts using technologies such as **Truffle**, **Solidity**, and **web3.js** (Source Code).

EXTRACURRICULAR

- **President** of Computer Science Graduate Society, University of Calgary.   **May 2021 — May 2022**
  Served as Graduate Student Council Representative and held events with 40+ attendants each.

- **Technical mentor** in the summer of code event, University of Tehran.   **Jul 2018 — Sep 2018**
  Led a team of 5 software developers to develop a file storage application for university students.

TEACHING ASSISTANTSHIP

Introduction to Software Engineering
University of Calgary

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

Web based systems
University of Calgary

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

Internet Engineering
University of Tehran

- Managed 9 TAs as the **Chief TA** of the course in the design, delivery, evaluation, and implementation of the necessary infrastructure of 8 projects.

Systems Analysis and Design
University of Tehran

- Managed 5 TAs as the **Chief TA** of the course to deliver course projects, quizzes, and homework.