Shahryar Soltanpour

Software and Site Reliability Engineer

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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

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

TECHNICAL EXPERIENCE

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

- Develop various features such as *infinite scrolling* using **Python**, **Django**, **PostgreSQL** and **Redis**.
- Deploy the implemented features on the cloud using **Docker** and **Kubernetes**.
- Maintain services to ensure the owned services are operating properly 24/7. Working closely with **Grafana** and **Kubernetes**.
- Review and evaluate merge requests on my owned services then merge and deploy them.
- Design the system for new features, by writing *design docs* and implementing them.
- Interview and help select software engineers.

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

- Design and implement 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**.
- Design and implement a system to extract useful information based on the videos watched in the mentioned video player, using **Kafka**, **Elasticsearch**, and **Kibana**.
- Implement the *retargeting* feature. Increasing click-through rate for 10x, the conversion rate for 70%. Resulting in about 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.
- Refactor 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*

- Launch *Unagi*, a location-based social network application. Develop iOS and Android applications using **react native**.
- Develop backend using **Node JS Express**.
- Learn 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

- Implement a compiler for an actor-based language named Atalk in the compiler design course using **Antlr4** and **Java**. (Source Code)

- Implement 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)

- Implement 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)

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

EXTRACURRICULAR

- **Technical Lead** at Code the Change Calgary   **Jan 2023 — Present**
  Lead a team of 5 developers to implement a fundraising application using **Node.JS** and **React**.

- **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*

- Investigate the use of multilingual codes, especially in industry, and also maintain a change propagation framework written in C#. This framework supports multiple languages such as Java, C#, Python, and Transact-SQL. In addition, develop 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*

- Use 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.