

Hadi Sinaee

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SUMMARY

I am a **software engineer** with more than **5 years** of experience in building **distributed systems** and **infrastructures** designed to perform in **concurrent** scenarios. I have delivered **highly scalable and performant** solutions for businesses with **millions of users**.

WORK EXPERIENCE

Graduate Research Assistant - Systems Software Engineer

Systopia Lab, University of British Columbia

Jan 2021 - Oct 2023

- *Devised* a graph partitioner using C++ that achieved **70%** higher quality partitioning than the state-of-the-art.
- *Implemented* parallel graph partitioning features with **OpenMP**, achieving a **50%** reduction in execution time.
- *Extended* a multithreaded Python **FaaS** profiler to support **Knative** along with **OpenWhisk**.

Senior Software Engineering Consultant - Remote

Torob Inc., Search Engine for Online Shopping

Apr 2020 - Dec 2020

- *Mentored* Senior Software Engineers and Product Managers for a product serving **9M+** users.
- *Engineered* data analysis using **SQL**, **Python** and **Pandas**, optimizing the shop's ranking system by **%10**.
- *Transitioned* **100%** of product development and management to the GitLab platform.

Staff Software Engineer

Ostadkar, A Marketplace for Home Services

Mar 2019 - Feb 2020

- *Led* cross-functional teams (+30) in engineering and data analytic for a **1M+** user marketplace.
- *Achieved* deployment of **10+** microservices to the **Kubernetes** cluster with an event-driven architecture, resulting in a **50%** increase in availability and a **75%** reduction in tail latency.
- *Implemented* **CI/CD** pipelines with GitLab and streamlined Docker packaging, achieving a **50%** reduction in deployment time.

Senior Software Engineer

Ostadkar, A Marketplace for Home Services

Jul 2018 - Mar 2019

- *Designed and implemented* a new microservice using an event-driven architecture, expanding the company's offerings in a new line of business.
- *Optimized* **API** throughput by **doubling** performance through effective caching and query optimization.
- *Contributed* to hiring three Sr. Software Engineers and actively participated in the optimization of the hiring process.

Software Engineer - Co-Founder

HodHod IM, Instant Messaging Application

Jul 2015 - Jul 2018

- *Attained* **200K+** DAU and **2M+** installs with +1M users.
- *Designed* a distributed messaging architecture using an event-driven approach, resulting in a yearly revenue generation of over **10B IRR**.

EDUCATION

University of British Columbia

M.Sc. in Computer Science, Systems, supervised by Prof. Margo Seltzer

Jan 2021 - Oct 2023

Sharif University of Technology¹

M.Sc. in Computer Science, Machine Learning

Sep 2013 - Feb 2016

SKILLS

Languages: Go / Golang, C, C++, Python

Technologies: Docker, Kubernetes, Knative, Kafka, Redis, MongoDB, Django, Flask, Terraform

Misc.: Git, CI/CD, OpenMP, Nginx, gRPC, AWS, Networking, Virtualization

¹It is considered as the nation's most prestigious and leading institution for STEM fields.