

Mohammad Reza Kianifar

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⚙️ Skills

Programming Languages Java, Kotlin, Python, JavaScript, Bash, PHP, C++

Web Spring Boot, Django, React, NodeJS, Laravel, REST

Big Data & Databases MongoDB, MySQL, PostgreSQL, Kafka, Cassandra, Redis, Elastic Search

Site Reliability Engineering Docker, Jenkins, Kubernetes, Nginx, Grafana, Linux

Software Engineering & Tools Microservices, Object-Oriented patterns, Agile(Scrum), Git, JUnit

🎓 Education

Master of Science in Computer Science *University of Calgary, Canada* Jan 2021 - Present

Bachelor of Science in Software Engineering *University of Tehran, Iran* Sep 2015 - Feb 2020

💻 Professional Experience

Graduate Research Assistant *Univeristy of Calgary* May 2021 - Present

- Thesis: Graph Generalization for Software Engineering, using: **Kotlin, Java, Python**, and **Bash**, GPA: 3.93.
- Designed and implemented an algorithm to compare two directed labeled graphs to identify the similarities and abstract away differences with variable components with 90% test coverage.
- Conducted an analysis for detecting important semantic changes during a library version update, resulting in a 54% improvement in precision compared to alternative tools.
- Accepted for a 10-minute talk at [2nd Annual Alberta Graduate Mathematics and Statistics Conference 2023](#).

Technical Leader at Tapsell *Tehran, Iran* Jun 2020 - Dec 2020

- [Tapsell](#) is the largest mobile ad network in Iran with 70M+ monthly active users and 100M+ daily requests.
- Led the design of a video-ad integration with [a partner company](#) that handles 3M+ daily requests.
- Managed a cross-functional team of 12 technical and communicated with business members for 6 months.
- Developed a comprehensive documentation platform, saving 25+ hours of training time per intern.
- Supervised a 2-week internship program for college students with hands-on exercises.

Software and Data Engineer at Tapsell *Tehran, Iran* Jan 2019 - Jun 2020

- Created a data collector module for an integrated service, handling 5M+ daily requests. **Kafka, Cassandra**, and **Elasticsearch** were the main components.
- Collaborated on 12 projects in a microservice architecture involving designing data pipelines and managing high volumes of requests, using **Java, Kotlin**, and **Spring Boot** deployed with **Jenkins** and **Kubernetes**.
- Facilitated the streaming processing service, which replaced the previous Spark-based version.
- Designed new services based on RESTful API for the dashboard panel with 55% improvements in performance and resources, by optimizing **PostgreSQL** and **MongoDB** databases.
- Refactored and optimized the code base, improving code readability and performance using clean code principles by removing 4000+ lines of legacy code.

Full Stack Developer at Hinza Co. *Tehran, Iran*

Jan 2016 - Jan 2019

- > **Hinza** provides digital solutions especially website services for 50+ medium-sized companies.
- > Automated time-tracking for employees by developing an online application with a test coverage of 95%. Coded the hybrid application using **React Native** and backend using **Python, Django**, and **MySQL**.
- > Played an integral role in the development of an E-Commerce platform, leading to the sale of profitable projects, notably **Kitline**, using **JavaScript, PHP**, and **Laravel**.
- > Collaborated on the development of the company's content management system used on 20+ websites.

Full Stack Developer at Mafia *Tehran, Iran*

May 2016 - Aug 2016

- > Founded a start-up for an online Mafia game using **NodeJS, TypeScript**, and **ExpressJS** Framework.

★ Honors and Awards

Winner of CCPC *Ranked 4th for 2 years in a data structure and algorithm contest*

Apr 2022, Apr 2023

Ranking in the Bachelor's Graduating Class *among the top 20% with GPA of 3.79/4*

Feb 2019

Ranking in the Iranian Nationwide University Entrance Exam *364th among 180K+ (top 0.2%)*

Jul 2015

🕒 Volunteer Experience

President, Vice-President Social *Computer Science Graduate Society*

Jun 2021 - Apr 2023

- > Raised over \$10,000 of funding and held 10+ events for graduate students at UCalgary.
- > Awarded Rizvi Family Scholarship in the amount of \$3,000 for volunteer services.

Technical Mentor *Summer of Code Event at the University of Tehran*

Jul 2018 - Sep 2018

- > Coordinated a team of 5 students to develop a social network for holding events at the university, using **NodeJS** and **React**.

🏛️ Teaching Assistantship

Introduction to Software Engineering *University of Calgary*

5 terms

- > Leveraged the knowledge of software engineering principles and UML diagrams.

Advanced Programming *University of Tehran*

3 terms

- > Established expertise in code review following the principles outlined in the Clean Code book.
- > Deepened knowledge of **C++** which was the official language of the course.

Internet Engineering (Chief TA) *University of Tehran*

1 term

- > Led the design of 10 assignments for 80 students while supervising a team of 9 TAs in the course.