Mohammad Reza Kianifar

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⚙ Skills

Programming Languages   Java, Kotlin, Python, JavaScript, C++, PHP, NodeJS
Frameworks   Spring Boot, Spring MVC, Spring Data and Spring Cloud, Django, React, Laravel
Databases   MongoDB, MySQL, PostgreSQL, Elastic Search, Kafka, Cassandra
Tools   Git, Scrum, Docker, Jenkins, Kubernetes, Tomcat, Nginx, Redis, Redux

🎓 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, GPA: 3.93/4.
> Designed and implemented an algorithm to compare two directed labeled graphs to identify the similarities and abstract away differences with variable components with 85% test coverage.
> Achieved a 17% enhancement in completeness by comparing with a previous anti-unification approach.
> Conducted an analysis for detecting important semantic changes during a library version update, resulting in a 34% improvement in precision compared to alternative tools.
> Accepted for a 10-minute talk at 2nd Annual Alberta Graduate Mathematics and Statistics Conference 2023.
> **Technologies:** Kotlin, Java, Python, Bash Scripting - Pandas, Matplotlib, JUnit.

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 20 business members for 6 months.
> Developed a comprehensive documentation platform to facilitate the onboarding process for new team members by providing clear explanations of complex concepts, 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.
> Collaborated on 12 projects in a microservice architecture involving designing data pipelines and managing high volumes of requests.
> Facilitated the streaming processing service, which replaced the previous Spark-based version.
> Designed new services based on RESTful API for the dashboard panel to support the business team with data analysis and management with 55% improvements in performance and resources.
> Refactored and optimized the code base, improving code readability and performance using clean code principles by removing 4000+ lines of legacy code.
> **Technologies:** Java, Kotlin - Spring Boot Framework - MongoDB, Elastic, Kafka, Cassandra, Kubernetes.

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%.
> Played an integral role in the development of an E-Commerce platform, leading to the sale of profitable projects, notably [Kitline](#).
> Collaborated on the development of the company's automation system and content management system.
> **Technologies:** Python, PHP, JavaScript - Django, Laravel frameworks - MySQL, PostgreSQL - React Native.

Full Stack Developer at Mafia *Tehran, Iran*   May 2016 - Aug 2016
> Founded a start-up for an online Mafia game using NodeJS, TypeScript, and Express 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 events for CS graduate students at UCalgary.
> Awarded Rizvi Family Scholarship in the amount of $3,000 for volunteer services.

ACM Volunteer *Data Analysis Contest at the University of Tehran*   Dec 2016 - Feb 2017
> Implemented a [real-time judge](#) using the Laravel framework for an online contest with 65 participants.

🎓 Teaching Experience

Introduction to Software Engineering *University of Calgary*   Jan 2021 - Dec 2023 (5 terms)
> Leveraged the knowledge of software engineering principles and UML diagrams.

Software Evolution and Reuse *University of Calgary*   Sep 2022 - Apr 2022 (2 terms)
> Practiced research review for computer science undergraduate and graduate students.

Advanced Programming *University of Tehran*   Sep 2017 - May 2019 (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*   Jan 2019 - May 2019 (1 term)
> Led the design of 10 assignments for 80 students while supervising a team of 9 TAs in the course.