

Mohammad Reza Kianifar

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Skills

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

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

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

Site Reliability Engineering Docker, Kubernetes, GKE, AWS, Jenkins, GitHub Actions, Datadog, Circle CI

Software Engineering & Tools Microservices, Object-oriented patterns, Agile (Scrum), Git, Unit testing

Education

Master of Science in Computer Science University of Calgary, Canada

Jan 2021 - Jan 2024

Bachelor of Science in Software Engineering University of Tehran, Iran

Sep 2015 - Feb 2020

Professional Experience

Senior ML Software Engineer Turing, Canada

Oct 2025 - Present

- Designed and built a platform for agentic evaluation and verification of tasks from different benchmarks, including Terminal-Bench, Harbor, and SWE-Bench.
- Tech stack: **Python, Django, and PostgreSQL** (backend); **TypeScript** and **React** (frontend).
- Extended the Harbor harness framework and implemented a Colab-based agent to execute agentic tasks within Jupyter notebook environments.
- Implemented a rubric-based evaluation system with an LLM-as-a-judge for qualitative task assessment.

Software Engineer Wave HQ, Canada

Jan 2024 - Sep 2025

- Contributed to the risk management systems at [Wave](#), a financial platform with 200K+ active small business users, using **Python, Django, PostgreSQL, RPC, GraphQL** and **React**.
- Led the architecture design and end-to-end implementation of Apple Pay integration.
- Developed an automated schema diagram generator for APIs and Kafka events, used across teams.
- Established clean code and review principles to improve collaboration and code quality across a 13-person engineering team.

Graduate Research Assistant University of Calgary, Canada

Jan 2021 - Jan 2024

- Published a peer-reviewed journal article in [MDPI](#) about *Graph Generalization for Software Engineering*.
- 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.

Lead Software Engineer Tapsell, 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 Engineer *Tapsell, 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.

Software Engineer *Hinza Co., Iran*

Jan 2016 - Dec 2018

- › [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.

★ Honors and Awards

Winner of CCPC <i>Ranked 4th for 2 years in a data structure and algorithm contest</i>	Apr 2022, Apr 2023
Ranking in the Bachelor's Graduating Class <i>among the top 20% with GPA of 3.79/4</i>	Feb 2019
Ranking in the Iranian Nationwide University Entrance Exam <i>364th among 180K+ (top 0.2%)</i>	Jul 2015

⌚ Volunteer Experience

President, Vice-President Social <i>Computer Science Graduate Society</i>	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 <i>Summer of Code Event at the University of Tehran</i>	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 <i>University of Calgary</i>	5 terms
› Leveraged the knowledge of software engineering principles and UML diagrams.	
Advanced Programming <i>University of Tehran</i>	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) <i>University of Tehran</i>	1 term
› Led the design of 10 assignments for 80 students while supervising a team of 9 TAs in the course.	