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, Kubernetes, GitHub Actions, AWS, Jenkins, Circle CI, Argo CD, 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 - Jan 2024

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

💻 Professional Experience

Software Engineer *Wave HQ*   Jan 2024 - Present
> Contributed in a financial platform for 2M+ small businesses using **Python**, **Django**, and **PostgreSQL**.
> Used GitHub actions with CI/CD tools for developing, testing, and deploying code.

Graduate Research Assistant *Univeristy of Calgary*   Jan 2021 - Jan 2024
> 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.

Lead Software Engineer 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 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.

Software Engineer at Hinza Co. *Tehran, 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 *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.