SADJAD TAVAKOLI

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About Me

Five years of industrial experience as a software engineer, team leader, and internship coordinator.
Cheerful, observant, critical thinker, punctilious, with a prospecting personality.
Experienced learner and reliable teammate who gets tasks done.

Professional Experience

Intelligent Information Solutions Center (IIS)   *Tehran, Iran*
Software Engineer   *Nov. 2018 - Sep. 2020*

Project: Dorna, an executive tracking and monitoring system developed for a company with **1K+ employees** and **1M+ terminals**.
- **Migrated Map service** from Google Maps to a local one.
- Pushed forward the **project architecture refactoring** process from **Microservice to Monolithic**.
- **Delivered External APIs** using Django Rest Framework (DRF).

Project: Motoshub, a social network development engine, based on Oxwall, which is currently used by **12 organizations**.
- Refactored Chat Service and User-Server interaction to use Websocket instead of API calls.
- Developed and maintained features on both frontend and backend using PHP, JavaScript, and HTML/CSS.

Shopgram   *Tehran, Iran*
A social commerce platform with **200+ sellers** and **2k+ active users**. This project was later rebranded as SnappShop⧉, which currently has **100K+ active users** and **20K+ daily visits**.

Software Engineer   *Apr. 2019 - Sep. 2019*
- Refactored and developed chat service implemented by Django Channels.
- Refactored and Wrote unit and integration tests, focused on the integral parts, which increased **test coverage from 15% to 60%**.
- Refactored two main models and their related views regarding **Code Smells** and **Anti-Patterns**.

Lyan   *Tehran, Iran*
A social commerce startup accelerated by SUT⧉. This project was initiated by who Co-Founded three successful projects (TomanPay, Behtarino, and SnappShop). Lyan was later pivoted as Shopgram.

App Team Manager and Product Owner   *Apr. 2017 - Dec. 2017*
- **Managed a team of 5** to design and develop two mobile applications for Android and iOS with **100+ APIs**.
- Managed the **product ownership** including backlog, roadmap, product release planning using Taiga, based on **Scrum** and **Kanban** principles.
- Collaborated with the marketing team to identify their needs and define product deliverables and release milestones.

Software Engineer   *Nov. 2015 - Dec. 2017*
- **Involved in the full project lifecycle** to design, develop, and deploy **300+ APIs** and **80+ database models**, using Django, DRF, and PostgreSQL.
- Wrote and maintained unit and integration **tests with** $\sim 95\%$ **coverage.**
- **Mentored and managed 10+ interns** assigned by the Sharif University of Technology as a part of their education and less experienced software engineers.
- **Reviewed 200+ merge requests and coding tasks.**
- **Technical team representative** to the marketing team.

Technical Skills

Languages (sorted by experience and preference): Python, JavaScript, Java, SQL, HTML/CSS, C++ , PHP
Knowledge: Agile Methodologies, OOP, Design Patterns, Data Structure and Algorithms, Code Smells
Tools/Frameworks: Django Rest Framework, Nodejs, Git, Docker, Jenkins, Project Management Tools (Trello, Github, Gitlab, and Taiga)

Education

Simon Fraser University (SFU)   *Sep. 2020 - Current (Sep. 2022)*
Master of Computing Science Under the Supervision of Dr. Saba Alimadadi, GPA 3.5/4   *BC, Canada*
- **Research Areas**: Software Engineering, Software Analysis, Software Comprehension with a focus on Change Impact Analysis
- **TA Experiences**: Intro to Software Engineering (CMPT 276); Web-based Information Systems (CMPT 470)

Sharif University of Technology (SUT)⇗   *Sep. 2013 - Sep. 2019*
Bachelor of Software Engineering Under the Supervision of Dr. MohammadAmin Fazli   *Tehran, Iran*
- **Thesis**: Computing the Cultural Distance between Countries by Mining Twitter Data (*Published in IEEE*)
- **TA Experiences**: Fundamentals of Programming (C Language)

Publications

Issa Annamoradnejad, MohammadAmin Fazli, Jafar Habibi, and Sadjad Tavakoli. Cross-cultural studies using social networks data. *IEEE Transactions on Computational Social Systems*, 6(4):627–636, 2019⇗