Sadjad Tavakoli

🔰 (778)751-6969 🗷 sadjadtavakoli@gmail.com 🛅 sadjadtavakoli 🕥 sadjadtavakoli

EXPERIENCES

Simon Fraser University (SFU)

Burnaby, Canada

Research and Teaching Assistant

Sep. 2020 - Apr. 2023

- · Conducted a research paper on a hybrid change impact analysis technique for Node.js applications
- o Developed a change impact analysis tool, called Caprese, using Java and Node.js

Intelligent Information Solutions Center (IIS)

Tehran, Iran

Software Engineer

Nov. 2018 - Sep. 2020

- Developed and maintained front-end/back-end features and external APIs using Django, Django Rest Framwork (DRF), PHP, MongoDB, and JavaScript.
- Refactored Chat Service and User-Server interaction to use Websocket instead of API calls.
- Pushed forward the **project architecture refactoring** process from Microservice to Monolithic.
- Migrated Map service from Google Maps to a local one.

Shopgram Tehran, Iran

A social commerce platform. This project was later rebranded as SnappShop, which currently is one of the most advanced online shopping platforms in Iran with 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 \square . Lyan was later pivoted as Shopgram.

Team Lead and Product Owner

Apr. 2017 - Dec. 2017

- Managed a team of 5 to design and develop two mobile applications (Android and iOS) with 100+ APIs.
- Managed **product ownership**, including backlog, roadmap, and 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.
- $\circ\,$ Reviewed 200+ merge requests and coding tasks.
- Technical team representative to the marketing team.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML/CSS, C/C++, LATEX, Bash, SQL, PHP

Tools/Frameworks: Django Rest Framework, Nodejs, jQuery, Express.js, Git, Docker, MongoDB, PostgreSQL,

Jenkins, React, Project Management Tools (Trello, Github, Gitlab, and Taiga), RabbitMQ

Knowledge: Agile Methodologies, OOP, Design Patterns, Data Structure and Algorithms, Code Smells

Testing: PyTest, JUnit, Mocha, Jest, Tap

OS: Linux, MacOS, Windows

EDUCATION

Simon Fraser University (SFU)

Sep. 2020 - Apr. 2023

Master of Computing Science Under the Supervision of Dr. Saba Alimadadi, GPA 3.5/4

BC, Canada

- Research Topic: A hybrid change impact analysis technique for Node.js applications.
- Research Areas: Software Engineering, Software Analysis, Change Impact Analysis, Dynamic Analysis, Pattern Detection, Mining Software Repository
- 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)
- Publication: 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