

MATIN KOOHJANI

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RESEARCH INTERESTS

- Software Engineering
- Software Development Methods
- Performance Engineering
- Artificial Intelligence

EDUCATION

Ferdowsi University of Mashhad

B.SC. IN COMPUTER ENGINEERING

WITH SPECIALIZATION IN SOFTWARE ENGINEERING

TOTAL GPA: 3.49/4

MASHHAD, IRAN

FALL. 2018 - WINTER. 2023

Shahid Hashemi Nejad 1 High School (NODET)

National Organization for Development of Exceptional Talents

Diploma in Mathematics and Physics

TOTAL GPA: 4/4

MASHHAD, IRAN

SEP. 2014 - JUL. 2018

PROJECTS HIGHLIGHT

- 2023 Lead Software Engineer in **Search Ads** @NeshanMaps
- 2022 Developed a **Category Classifier** for users' queries using logistic regression.
- 2022 Collaborated in developing A simple **Trend Analysis Service** of *NeshanMaps's Search Log*.
- 2022 Refactored some *legacy projects* in *NeshanMaps* with having **Maintainability**, **Performance** and **Scalability** in mind.
- 2021 Implemented a **fault-tolerant real-time processing pipeline** for different types of searchable data.
- 2021 Designed and implemented of some **cloud management** scripts in OpenStack.
- 2020 Implementation an elementary OS **task scheduler** in Linux using C.
- 2020 Implementation an interpreter for a made-up language using Antlr and Java.
- 2020 Creating a simple **backup management system** using Python's OS library.

TEACHING & MENTORING EXPERIENCE

Teaching Assistant, CE Department, Ferdowsi University of Mashhad

The Theory of Languages and Automata by Dr. S. Abrishami & Dr. A. Savadi

Electrical and Electronic Circuits by Dr. H. Pourreza

Discrete Mathematics by Dr. A. Ghaemi Bafghi

FALL 2020 - FALL 2021

WINTER 2020

FALL 2019

Instructor, Student Scientific Chapter, Ferdowsi University of Mashhad

C Programming for Electrical Engineering Students.

This course was part of a plan designed to teach EE students how to program a micro-controller. I was responsible to teach the fundamentals of C.

WINTER 2019

Winter 2020

Mentor, Team Search, NeshanMaps

Supporting the Mentees: both technically and emotionally

Agile Coach: *That's how we do things!*

Growth Mindset: *Giving them the opportunities to grow.*

2021 - PRESENT

WORK EXPERIENCE

Software Engineer at NeshanMaps & Navigator

JUL. 2020 - PRESENT (3 Years)

NeshanMaps is the most popular map & navigator in Iran With over 20 million users. Working as a member of **search** team, I am doing my best to improve the quality of our backend services and development experience!

- Designed and Implemented **Search Ads** backend services in the most Agile way!
- Redesigned some of the old spaghetti codes to increase the performance, maintainability and availability of the system using micro-service architecture, 'clean code' principles and software testing.
- Designed and implemented both **batch & stream processing pipelines** to ensure that our data is valid and up-to-date. These pipelines reduced the operation cost significantly.
- Enhanced the performance of our **database insertion** process **by 10x**, using low-level solutions. The outcome was quite helpful for several teams.

SKILLS

Programming Languages

Experienced in Java, Python, SQL, JavaScript

Frameworks

Experienced in Spring Boot, familiar with Flask

Databases

Experienced in PostgreSQL, Elasticsearch, Redis

Messaging Tools

Experienced in RabbitMQ, Spring AMQP, Protobuffer & gRPC

DevOps Tools

Experienced in Kubernetes, GitLab CI/CD, familiar with Docker, AWS

HONORS & AWARDS

Ferdowsi Academic Foundation Scholarship

2018

Ranked 1st In Engineering Faculty, Based on National University Entrance Exam

2018

EXTRACURRICULAR ACTIVITIES

ICCKE 2020, 2021 & NCAEA 2021

OCT. 2020, DEC. 2021

Executive Member

ICCKE and NCAEA are two annual conferences held by CS department.

Student Scientific Chapter

MAY. 2019 - MAY. 2021

Active Member

Planned and held many scientific and social events.

LANGUAGE PROFICIENCY

Persian Native

English IELTS certificate with band score of 7.5 (Listening 8, Reading 8.5, Writing 6.5, Speaking 7)

REFERENCES

Dr. Saeed Abrishami

Assistant Professor in Computer Engineering
Ferdowsi University of Mashhad, Iran

✉ s-abrishami@um.ac.ir

Dr. Hamidreza Pourreza

Professor in Computer Engineering
Ferdowsi University of Mashhad, Iran

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Eng. Davood Amini

Technical Team Lead of *Search* in
Neshanmaps & Navigator, Iran

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