

MATIN KOOHJANI

✉ matinkoohjani@gmail.com | 📞 +1 514 430 3971 | 🌐 MatinKoojhani | 📧 we1257n

RESEARCH INTERESTS

- Software Engineering
- Large Language Models
- Artificial Intelligence
- Performance Engineering

EDUCATION

Concordia University M.SC IN SOFTWARE ENGINEERING	MONTREAL, QC SUMMER 2024 - PRESENT
Ferdowsi University of Mashhad B.SC. IN COMPUTER ENGINEERING TOTAL GPA: 3.49/4 (16.99/20)	MASHHAD, IRAN FALL 2018 - WINTER 2023

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 <i>Dr. S. Abrishami & Dr. A. Savadi</i> Electrical and Electronic Circuits by <i>Dr. H. Pourreza</i> Discrete Mathematics by <i>Dr. A. Ghaemi Bafghi</i>	FALL 2020 - FALL 2021 WINTER 2020 FALL 2019
Instructor, Student Scientific Chapter, Ferdowsi University of Mashhad C Programming for Electrical Engineering Students. <i>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.</i>	WINTER 2019 Winter 2020
Mentor, Team Search, NeshanMaps Supporting the Mentees: <i>both technically and emotionally</i> Agile Coach: <i>That's how we do things!</i> Growth Mindset: <i>Giving them the opportunities to grow.</i>	2021 - 2024

WORK EXPERIENCE

Software Engineer at NeshanMaps & Navigator

JUL. 2020 - APR. 2024 (3.5 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	<i>Experienced</i> in Java, Python, SQL, JavaScript
Frameworks	<i>Experienced</i> in Spring Boot, FastAPI
Databases	<i>Experienced</i> in PostgreSQL, Elasticsearch, Redis
Messaging Tools	<i>Experienced</i> in RabbitMQ, Spring AMQP, Protobuffer & gRPC
DevOps Tools	<i>Experienced</i> in Kubernetes, GitLab CI/CD, <i>familiar</i> with Docker, AWS

HONORS & AWARDS

<i>Concordia Merit Scholarship</i>	2024
<i>Ferdowsi Academic Foundation Scholarship</i>	2018
Ranked 1st In Engineering Faculty, Based on National University Entrance Exam	2018

EXTRACURRICULAR ACTIVITIES

ICCKE 2020, 2021 & NCAEA 2021 <i>Executive Member</i> ICCKE and NCAEA are two annual conferences held by CS department.	OCT. 2020, DEC. 2021
Student Scientific Chapter <i>Active Member</i> Planned and held many scientific and social events.	MAY. 2019 - MAY. 2021

LANGUAGE PROFICIENCY

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

REFERENCES

Prof. Diego E. Costa
Assistant Professor in CSSE Department
Concordia University, QC
✉ diego.costa@concordia.ca

Prof. Saeed Abrishami
Assistant Professor in Computer Engineering
Ferdowsi University of Mashhad, Iran
✉ s-abrishami@um.ac.ir

Prof. Hamidreza Pourreza
Professor in Computer Engineering
Ferdowsi University of Mashhad, Iran
✉ hpourreza@um.ac.ir