Mohammad Hosein **Setak**

Computer Engineer

Phone +989197722287 E-mail mh.setak38@gm

I am a hardworking and passionate individual offering more than three years of experience as a programmer. I like to solve problems using creative thinking and innovative solutions. Pursuing a new position in Master of Science in Computer Science will be widely appreciated. I am a flexible and fast-learner person and always trying to learn new things and concepts. I quickly master new software packages and hardware technologies.

Education

2017-09 - Curre Bachelor of Science: Computer Engineering Amirkabir University of Technolog

Last 2 year GPA: 17.42 out of 20

High School Diploma 2013-09 - 2017-09

Nikan High Schoo

Overall GPA: 19.6 out of 20

Experience 2021-06 - Current

020-05 - 2020-09

2019-05 - 2019-08

Big Data Developer Intern

- persocopy, tenton, ron

 Worked with one of the largest datasets in the Middle East, Behsacorp uses
 Harmshe Aval (A telecom company in the Middle East with more than 65 millis
 subscribers)'s data, analyzes it, and gives feedback.

 We developed a royally system for Harmshe Aval to keep customers happy
 and loyal using Oracle Siebel.

 I was introduced to Apache Spark, Hive and still learning it.

 Used critical thinking to break down problems, evaluate solutions and make
 recisions.
- Worked effectively with multiple Scrum teams both internally and off-shore.
- Research Institute for Information and Communication Technology, Tehran, Iran

Wrote maintainable, solid code for scraping news data for nearly 200 Persian news websites, running every hour to get the latest news and make them ready for NLP analysis. Wrote Facebook, Instagram crawlers to get the latest posts from specific users.

- Freelancing Project
- WorldTrading, Tehran, Iran
- Developed an advertiser Twitter bot to advertise the company by reading the latest tweets and searching for specific keywords. Created a dashboard to fully control the bot and make it customizable with customer's needs.

Research Projects

- Tehran, Iran

 Amiktabir University of Technology

 Developed a compiler to compile a new simple programming language to C trom given grammar in python. (Compiler-project)

 During my Artificial Intelligence course, I developed multiple projects which use Graph Searching Algorithms, NLP, CSP in python.

 Full-stack development of en Euhop websile, React as front-end and Djanga a backend [thige-exhap websile]

 During my Computational Intelligence course, I developed multiple neural networks, which learned games like Rippy Bid, and hand-written digits in python. (airplane-project) [hand-written recognition)

 As my final project for Information Retheval Course created a simple search engine for Resian documents and a program to groups does in a certain number of clusters using KNN, which were implemented in python. (IR-project)

 Developed a compilete P Controller in ROS during my Robotics course, which travels inside a maze using python-ropy.

 - Developed a complete it controller in Nos during my kolonics course travels inside a maze using python-tospy.

 Developed a download manager like IDM in Java. (JDM)

 Developed Normal Tanks in my second semester, which is a 2d multiply game as my Advanced Programming course's final project. (JTanks) kan High Schotol

 - game as my Advanced Programming course' can High School Created an attending system prototype for so students in the first year of high school
- Teaching Assistant
- nirkabir University of Technology, Tehran, Tehran
- Microprocessor and Assembly Language Course
 Web Engineering Course
- Honors and Awards Ranked in the top 0.6% in the Nationwide University Entrance Exam for B.Sc

2021-02 - 2021-05

Publications

I am currently doing research in the Viechle Routing Problem area, which has resulted in two papers until now. I'm assisting Sajad Hedayoti, a Ph.D. student in Civil Engineering at Khajeh Nasir Toosi University. We use Adaptive search approaches to solve the problems. I'm responsible for coating and implementing algorithms (like SA, Genetics, Hill climbing, etc.) used in the papers.

Re-supplying mobile parcel lockers in last mile logistics (in progress)

- We study the generalized vehicle routing problem with multiple time windows for re-supply mobile parcel lockers at selected locations in a set of fixed routes where mobile parcel lockers are moving on these routes during the day. We first provide a mixed-integer linear programming formulation for the problem and propose an adaptive large neighbourhood search algorithm for solving large-sized instances.

ormulations for the clustered generalized

Mixed-instances.

Mixed-integer linear programming for vehicle routing problem (In progress)

• The clustered generalized vehicle is

SQL Hadoop Creative

Inter-trouting problem (in progress)

The clustered generalized vehicle routing problem (CGVRP) is an extension of the vehicle routing problem in which demand points are grouped into a number of distinct zones. These zones are further grouped into different clusters. The objective of the CGVRP is to find a set of routies that a fleet of vehicles starts at depot and visits exactly one node per zone in a manner that all zones in a cluster should be visited consecutively. This paper proposes three mixed-integer linear programming formulations. literature.

Skills

Python lavascrint Reactis

Teamwork

Research Interests Artificial Intelligence & Machine Learning

Data Science & Engineering

Image Processing & Computer Vision

Software Engineering

Information Retrieval

Distributed Systems