# Mohammad Hosein Setak

Computer Enginee

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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. Pusuing 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

### Bachelor of Science: Computer Engineering Amirkabir University of Technology Last 2 yearGPA: 17.42 out of 20

2013-09 - 2017-09 High School Diploma

Overall GPA: 19.6 out of 20

### Experience 2021-06 - Current

### CRM Developer Intern hsacorp, Tehran, Ira

- Voited with one of the largest datasets in the Middle East. Behsacorp uses Hamrahe Aval (A telecom company in the Middle East with more than 65 m subscriben)'s data, analyses it, and gives feedback. We developed a royalty system for Hamrahe 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
- Worked effectively with multiple Scrum teams both internally and off-shore

ram crawlers to get the latest posts from specific u

d multiple projects which used

search 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.

20-05 - 2020-09

019-05 - 2019-08

Wrote Facebook, Instag

- Freelancing Project lran
- 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

Wrote maintainable, solid code for

## Tehran, Iran

Amirkabir University of Technology

- mirkabir University of Technology
  Developed a compiler to compile a new simple programming language to C
  from given grammar in python. (Compiler-project)
  During my Artificial Intelligence course, I developed multiple projects which use
  Graph Searching Algorithms, NPL, CSP in python.
  Full-stack development of en E-shop website, React as front-end and Django a
  backend (Holye e-shop website)
  During my Computational Intelligence course, I developed multiple neural
  networks, which learned games like Flappy Bird, and hand-written digits in
  python. (alpiane-project) (Inda-written reagonision)
  As my final project for Information Retrieval Course created a simple search
  engine for Persian documents and a program to groups docs in a certain
  number of clusters using KNN, which were implemented in python. (Re-project)
  Developed a compilete PI controller in ROS during my Robotics course, which
  trovels inide a marae using python-rospy.
- Developed a complete in common in Not some my notation and invasional and manage using python-rospy.

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

  Developed Normal Tanks in my second semester, which is a 2d multigame as my Advanced Programming course's final project. (JTanks)
- - 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

## Publications

2021-02 - 2021-05

I am currently doing research in the Viechle Routing Problem area, which has resulted in two papers until now. I'm assisting Sajad Hedayatt, a Ph.D. student in Industrial Engineering at Khajeh Nosir Tood University. We use Adaptive search approaches to solve the problems. I'm responsible for coding 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.

sized instances. Kwed-inleged Pinear programming formulations for the clustered generalized whicle routing problem (in progress). The clustered generalized vehicle routing problem (CGVRP) is an extension the vehicle routing problem in which demand points are grouped into a nu of distinct zones. These zones are further grouped into different clusters. The objective of the CGVRP is to find a set of routes that at fleet of vehicles starts 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-inte linear programming formulations. literature.

Skills

Python Java

Java: Reactis

Docker

SQL

Hadoo

Spark Creative

Research Interests

Artificial Intelligence & Machine Learning

Data Science & Engineering

age Processing & Comp

Software Engine

Information Retrieval

Distributed Systems