

# FIROOZEH KAVEH

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## EDUCATION

2009 to 2013	<b>Golpayegan University of Engineering, Golpayegan, Iran</b> BSc in Industrial Engineering GPA: 17.64/20.00 (first-ranked among 51 students)	2013 to 2015	<b>University of Tehran, Tehran, Iran</b> MS in Industrial Engineering GPA: 18.24/20.00 (Top 5%) Thesis: "Urban Transportation Network Design from a Location-allocation Aspect with Hub Structure"
Aug. 2020 to Current	<b>University of San Francisco</b> MS Computer Science GPA: 4.0		

## EXPERIENCES

**Human Exponent Inc. (Gyfted), Software Developer Intern**, June 2021 to Aug. 2021

- Designed the ETL infrastructure to process production data.
- Implemented a tool that facilitates psychometricians' analysis of data on MongoDB using python.
- Proposed several methods to reduce the data bias in analyzing job seekers' resumes.
- Proposed and designed a recommendation model that given a candidate skill/experience set, recommends jobs that match the candidate.

**University of San Francisco, Research Assistant**, San Francisco, CA, Mar. 2021 to July 2021

**Complexity of Scheduling Problems:** Worked on parameterized reductions of different group activity selection problems.

**SAIPA Corporation (Iran's second largest car manufacturer), Quality Control Analyst Intern**, Golpayegan, Iran, 2010 to 2011

- Anomaly Detection:** Used multivariate Gaussian distribution to detect anomalies in car engine pistons.
- Statistical Experimentation:** Applied A/B testing to compare the results of different car engine piston production procedures.

## PROJECTS AND COURSES

**Goodreads Website UX Redesign and UI Implementation · 2022**

Conducted user research by interviewing and collecting data using questionnaires followed by user and task analysis, designed wireframing and interactive prototyping using Figma. Then tested our design on several users. Finally, implemented the design using React.

**Music Analysis · May 2022 to Aug. 2022**

Implemented a transition detection model for music using a pre-trained transformer model.

**Ticket Purchase Web Application · 2021**

Designed and coded the UI plus the backend SQL server for a web application.

**Job Recommendation Model · 2021**

Designed a Neural Network based job recommendation model leveraging pre-trained word embeddings.

**Tic-Tac-Toe Game Optimization · 2021**

Implemented a Tic-Tac-Toe move optimizer using a minimax algorithm in Python.

**Music Library · 2020**

Implemented a UI and backend for a personalized music library in Java using HTML, JavaScript, and SQL.

**Lexer-Parser-Interpreter · 2020**

Implemented a lexer-parser-interpreter in Java to tokenize, parse and evaluate sentences in a high-level language.

**Spam Classifier · 2020**

Implemented a spam classifier using Naive Bayes algorithm with 85% accuracy in Java.

## SKILLS

<b>Programming</b>	Python, C, SQL, Java, Go, HTML, CSS, JavaScript, React
<b>Data Analysis and Visualization</b>	NumPy, Pandas, Scikit-Learn, Matplotlib, MongoDB
<b>Design</b>	Adobe Photoshop, Adobe Illustrator, Adobe XD, Procreate, Figma

## SELECTED PUBLICATIONS

• **Kaveh, F., Tavakkoli-Moghaddam, R., Triki, C., Rahimi, Y., Jamili, A. (2019). "A New Bi-Objective Model of the Urban Public Transportation Hub Network Design Under Uncertainty". Annals of Operation Research, 1-32 (Impact Factor: 2.583)**

• **Kaveh, F., Tavakkoli-Moghaddam, R., Jamili, A., Eghbali, M. (2016). "Design of a Bi-Objective Capacitated Single-Allocation Incomplete Hub Network Considering an Elastic Demand". International Journal of Industrial Engineering & Production Research, 27(4), 373-385**