Ghazal **Bakhshande**

Back-End Developer · AI Expert

Narmak, Tehran, Iran

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ghazal-bakhshande | age: 23

Education

Iran University of Science and Technology (IUST)   *Tehran, Iran*

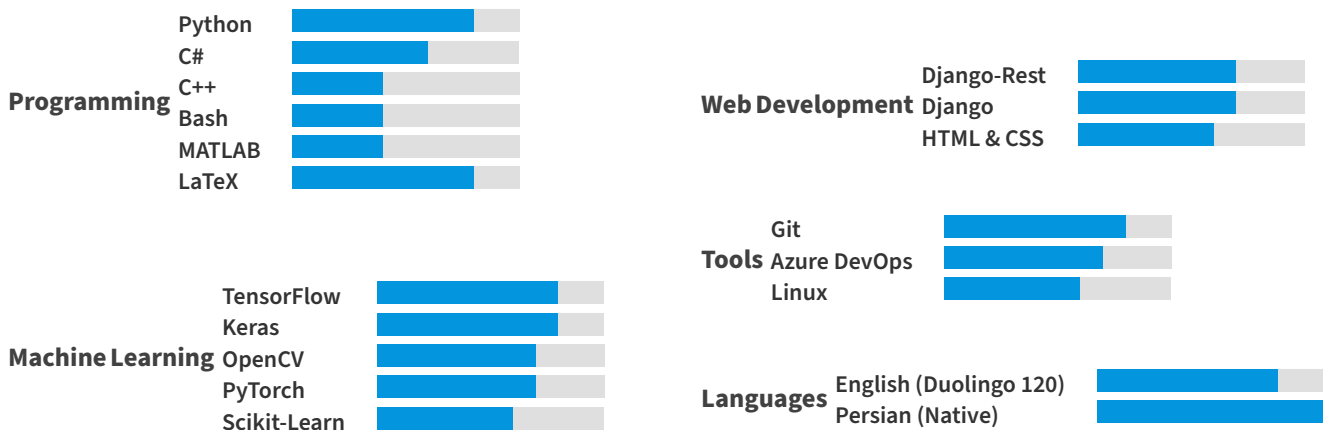B.Sc. in Computer Engineering   *Sep. 2019 - Mar. 2024*

- **GPA (142 units): 18.74/20**

Selected Courses:

- Software Engineering (20/20)
- Advanced Programming (19.54/20)
- Deep Learning (20/20)
- Artificial Intelligence and Expert Systems (18.2/20)
- Algorithms Design and Analysis (20/20)
- Database Design (20/20)

Skills & Languages

Programming
- Python
- C#
- C++
- Bash
- MATLAB
- LaTeX

Web Development
- Django-Rest
- Django
- HTML & CSS

Machine Learning
- TensorFlow
- Keras
- OpenCV
- PyTorch
- Scikit-Learn

Tools
- Git
- Azure DevOps
- Linux

Languages
- English (Duolingo 120)
- Persian (Native)

Professional Experiences

Sawiss Marjan   *Full-Time | Tehran, Iran*

Artificial Intelligence Expert   *Aug. 2024 - Oct. 2024*

- Collected large datasets by crawling various websites and analyzed data to extract insights and inform decision-making processes.
- Developed and deployed **generative AI models** to automatically create daily articles and content based on crawled data.
- Built and maintained the **Consulting Robot**, leveraging AI to provide intelligent and automated customer support.

Parizan Startup   *Part-Time | Tehran, Iran*

Back-end Developer   *Oct. 2021 - Aug. 2022*

- Developed a web-based **travel experience sharing application**. Users can create posts, follow others, rate locations, etc. [GitHub]
- Created a **real-time chat system** and integrated a **payment gateway** for user upgrades.
- Developed a comprehensive PWA **education platform** for teachers and students, including course enrollment, live classes, etc. [GitHub]
- Integrated **Skyroom API** for conducting live online classes.

IUST NLP & Computer Vision Laboratory   *Part-Time | Tehran, Iran*

Artificial Intelligence Research Assistant   *Jul. 2022 - Mar. 2024*

- Specialized in **machine learning**, **deep learning**, **Computer Vision**, **Natural Language Processing**.
- Specialized in **image segmentation**, **Siamese networks**, **object detection**, **LLMs**.
- Contributed to the "SEMEVAL 2024 TASK 4: **Multilingual Detection of Persuasion Techniques in Memes**" project, specializing in **multilabel classification** and **multimodal data analysis** (text and images).

Selected Projects

- **AI-Powered Chatbot**
  - Built a personalized chatbot using GPT models with NLU for intent recognition.
  - Enhanced context understanding through fine-tuning on personalized data.
- **Student Hub Website with .NET Blazor** [GitHub]
  - Built a website for students to rate professors, access course resources, and make informed course decisions.
- **Mobile Data Tracker App** [GitHub]
  - Developed an Android app in Kotlin for mobile data monitoring, usage tracking, and data limit configuration.
- **Persuasion Detection in Social Media Memes**
  - Utilized advanced data preprocessing methods, including the OpenAI API
  - Developed multimodal propaganda detection models using GPT-2, XLM-RoBERTa, ViT, and VGG.
- **Comment Sentiment Analysis** [GitHub]
  - Created a labeled dataset of Digikala comments for sentiment analysis.
  - Fine-tuned **ParsBERT** embeddings, achieving high classification accuracy.
- **CamScanner with OpenCV and Numpy** [GitHub]
  - Utilized Contour detection, Perspective transform, and Morphology Operations for document processing.
  - Applied various image processing techniques to emulate CamScanner filters.

Online Courses & Certifications

- **Building Web Applications in Django** [Certificate]	Coursera - Charles Russell Severance
- **Using Python to Access Web Data** [Certificate]	Coursera - Charles Russell Severance
- **Python Data Structures** [Certificate]	Coursera - Charles Russell Severance
- **Web Application Technologies and Django** [Certificate]	Coursera - Charles Russell Severance
- **Algorithms on Strings** [Certificate]	Coursera - University of California San Diego
- **Data Structures** [Certificate]	Coursera - University of California San Diego
- **Advanced Algorithms and Complexity** [Certificate]	Coursera - University of California San Diego
- **Algorithms on Graphs** [Certificate]	Coursera - University of California San Diego
- **Algorithmic Toolbox** [Certificate]	Coursera - University of California San Diego
- **Convolutional Neural Networks** [Certificate]	Coursera - Andrew Ng
- **Structuring Machine Learning Projects** [Certificate]	Coursera - Andrew Ng
- **Improving Deep Neural Networks** [Certificate]	Coursera - Andrew Ng
- **Neural Networks and Deep Learning** [Certificate]	Coursera - Andrew Ng

Teaching Experiences & Mentoring

- **Software Engineering (Mentor)** - Dr. Behrouz Minaei-Bidgoli, Dr. Mehrdad Ashtiani	Fall 2023, Spring 2023
- **Algorithms Design and Analysis** - Dr. Marzieh Malekimajd	Spring 2023
- **Computer Workshop** - Dr. Marzieh Malekimajd	Fall 2022
- **Advanced Programming** - Dr. Tayebe Rafiei	Spring 2021
- **Database Design** - Dr. Hossein Rahmani	Spring 2021
- **Fundamentals of Computer and Programming** - Dr. Reza Entezari-Maleki, Dr. Tayebe Rafiei	Fall 2020, Spring 2020

Honors & Awards

- **First Place** in the **IUST Machine Learning Challenge**, Awarded for achieving the highest rank in the classification task	May 2023
- Granted an opportunity to enroll in the **M.Sc.** program at **IUST**, **Sharif University of Technology** and **AmirKabir University of Technology**, without taking the "Iranian University Entrance Exam" as an **Exceptional Talented Student Award**	May 2023
- Ranked **3rd** highest GPA among 100 graduated bachelor's students at the Department of Computer Engineering at IUST.	July 2023