Melika Ahmadi Ranjbar

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Research Interests:

Product Management, Software Engineering, Front-End Developer, Human-Computer Interaction, Machine Learning, Deep Learning

Education

North Carolina State University — Raleigh, North Carolina
Ph.D. in Computer Science — *Aug 2022 - Ongoing*

Iran University Of Science And Technology — Tehran, Iran
B.Sc. in Computer Engineering with a focus on AI — *Sep 2018 - Jul 2022*

- **Awarded As Exceptional Talent & Outstanding Student Twice** — *Jan 2019 & Jul 2022*
- GPA: 3.86 (18.22 / 20)
- Selected Courses: Principles of Computer and Programming, Advanced Programming, Discrete Mathematics, Data Structure, Algorithm Design and Analysis, System Analysis, Software Engineering, Object-Oriented System Design, Computational Intelligence, Deep Learning

Academic Projects

Persian Hotpot Dataset Infrastructure
- Created An Infrastructure Of A New Dataset For Answering Hard Questions in Farsi By Web-Scraping The Whole Persian Wikipedia Using BeautifulSoup Library

Deep Learning
- Devised An Optical Character Recognition Application
- Generated Fully-Connected, Sequential, Convolutional Neural Networks Using Keras

System Design & Analysis
- Programmed Eventus Web Application Using React Framework

Natural Language Processing
- Designed A Sentence Generation Application Using Bert Model

Software Engineering
- Accomplished A Real Time Messenger With Photo Transmission, **GoNuts**, Using Android Framework

Computer Games Design
- Created Pong Game, Food Plate Game, And A Puzzle Game Using Unity & C#

Computational Intelligence Course
- Solved "Inverted Pendulum" Using Fuzzy Logic & Reinforcement Learning In Gym Environments
- Implemented Multi-Layer Perceptron (MLP) & Back-Propagation From Scratch Using Python

Reinforcement Learning
- Completed Search Functionality, Multi-Agent, And Reinforcement Learning For Pac-Man Game Using Python

Internship Experience

Hiweb — Tehran, Iran
CRM Developer Internship — *Sep 2020 - Jan 2021*
- Worked In Customer Relation Management Development At HiWeb Company Using ASP .Net & Microsoft Dynamics 365 CRM
- Was Offered A Permanent Position

Skills

Programming Languages   Python, C#, Java, JavaScript, C++, HTML, CSS, MATLAB

Framework & Libraries & Tools   Android, React, CRM, NumPy, MatplotLib, Keras, Tensorflow, OpenCV, Scikit-learn

Languages   Persian: Native, English: Proficient(TOEFL: 113, GRE: 321)

Project Management   ClickUp, Trello

Certifications   Reinforcement Learning, Algorithms on Graphs, Algorithms on Strings, Algorithmic Toolbox, Machine Learning, Data Structure

Professional Skills   Product Management, Teamwork & Communication, Highly Responsible & Motivated , Agile Methodologies & Scrum

Other   Git, Latex, Linux, Proteus, UML, Antlr4, Unity

Leadership & Involvement

Headmaster Of Computer Engineering Scientific Association (CESA) — *Sep 2020 - Sep 2021*
- Experienced In Leading The Association
- Awarded As The Best Science Association In University, Education, Competition, Booth-Content By Harekat Festival

Summer Startup Leadership
- Gathered A Group Of Students To Start A Small Strut-Up

Participated In Three ACM's Competitions
- Ranked 3rd at IUST ACM