

# AMIRMAHDI DARAIE

(+98) 919-7090-362  
daraieamirmahdi@gmail.com  
[Linkedin](#)

“Life is a tragedy when seen in close-up, but a comedy in long-shot.”

Charlie Chaplin

EDUCATION	<b>Sharif University of Technology</b> <i>B.Sc. in Computer Engineering, Department of Computer Engineering</i> • GPA: 17.11/20 • Research Interests: Computational Neuroscience Brain Computer Interface Reinforcement Learning Deep Learning AI in Software • Relevant Coursework: Machine Learning – 20 Software Engineering – 20 Neuroscience of Learning, Memory and Cognition – 18.1 Linear Algebra – 19.1 Probability and Statistics – 19 Data Structures and Algorithms – 18 Database – 18.8	Tehran, Iran 2020 – 2025
ACADEMIC EXPERIENCE	<b>B.Sc. Thesis project</b> <i>Under the supervision of Prof. Seyed-Hasan Mirian-Hosseiniabadi.</i> <i>There exists a variety of coverage criteria for software testing; however, most of these criteria are limited to research environments or systems where safety is critical. The primary reason for this limitation is the complexity of these coverage metrics and the lack of adequate tooling, which makes their adoption costly. Despite their strength, industry practice typically restricts itself to simpler coverage criteria, such as node and edge coverage. In this project, we focus on graph-based and logical coverage criteria, intending to develop a tool that can (1) automatically extract test requirements for these criteria and (2) verify that the user's test cases satisfy those requirements. The target implementation language for this project is Python, and the intended development environment is the PyCharm IDE. My role in this project is to conduct a study, implement the extraction tool, and develop the monitoring tool that validates user-provided test cases against logical coverage requirements.</i>	
	<b>Teacher Assistant</b> <b>Sharif University of Technology</b> Software Engineering Probability and Statistics Database	Feb 2024 – June 2024, Oct 2025 – Feb 2025 Feb 2024 – June 2024 Feb 2024 – June 2024
WORK EXPERIENCE	<b>Bitpin</b> <i>Software Engineer</i> <b>Yektanet</b> <i>Software Engineer</i> <b>Mofid Securities</b> <i>Junior Software Engineer</i>	Oct 2024 – Ongoing June 2023 – June 2024 Feb 2022 – Oct 2022

## PROJECTS

### NLMC

*Familiarity with Neuroscience.*

### EFRM

*The EigenFaces Recognition Model (EFRM) is a lightweight facial recognition model that processes images with this intention using EigenFaces and PCA*

### MLP

*Use of residual CNN in the MNIST dataset to train a digit classification model using Pytorch.*

### Raxi

*Implementing RL for a Taxi Driver.*

### CartPole

*Implementation of various RL concepts in the CartPole problem, using the Gym library in Python*

### NTGC

*Netflix taste graph clustering (NTGC)*

**Check out my GitHub for other projects**

## SKILLS

**Languages:** Persian (mother tongue), English (4/5).

**Programming Languages:** Python, Golang, Java, Kotlin, C & C++

**Data Frameworks:** PyTorch, TensorFlow & Keras, Gym, Pandas, Numpy

**Tools:** Kubernetes, Docker, Kafka, Redis, Postgres DB & Clickhouse DB, HDFS, Spark