

# Hamed Karimi

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- 10+ years of experience in machine learning, data science, and software engineering.
- 7+ years of experience designing and implementing deep learning models.
- 7+ years of experience developing machine learning pipelines for training and evaluating on large-scale datasets.
- 10+ peer-reviewed publications in high-impact ML conferences and neuroscience journals.

## Professional Experiences

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<b>Social &amp; Computational Cognitive Neuroscience Lab</b>	Boston College, MA
PhD Candidate	2021-2026
◦ Benchmarked video foundation models against cortical visual processing.	
◦ Developed and optimized multi-GPU pipelines for training deep neural networks on a high-performance cluster.	
◦ Published 3 peer-reviewed papers (70+ citations), including a <i>Journal of Neuroscience</i> cover feature and <i>NeurIPS</i> workshops ( <a href="#">Google Scholar</a> ).	
◦ Mentored and taught undergraduate student.	
<b>Cengage Group</b>	Boston, MA
Data Science Intern	2022
◦ Implemented an AWS pipeline to store, transcribe, and analyze 25M+ customer service calls.	
◦ Built NLP models on call data to generate actionable insights that lead to a sales guide and playbook, driving a 15% sales increase in the pilot group.	
<b>Cognetivity Neurosciences Ltd.</b>	London, UK
Machine Learning Research Intern	2020–2021
◦ Developed machine learning models on visual cognitive task data to detect mild cognitive impairment (MCI) and early Alzheimer's disease (AD), achieving classification performance on par with expert clinical assessments.	
◦ Established and benchmarked the first dataset of visual cognitive task responses for MCI and AD patients, enabling reproducible evaluation of ML approaches.	
<b>Pinket</b>	Tehran, Iran
Data Scientist	2020
◦ Built an ML model to predict store item availability, minimizing customer orders to less than 1% for out-of-stock products in stores lacking inventory databases.	
<b>System Group</b>	Tehran, Iran
Full Stack Software Engineer	2019-2020
◦ Built and maintained Enterprise Resource Planning (ERP) software with .NET.	
<b>Royan Institute</b>	Tehran, Iran
Research Assistant	2017-2021
◦ Analyzed large-scale EEG/fMRI data to study the temporal dynamics of neural activity in patients with mild cognitive impairment.	
◦ Published 11 peer-reviewed papers, including widely reported findings on delayed information processing speed in dementia.	
<b>Youtab Games</b>	Tehran, Iran
Founding Game Developer	2016-2017
◦ Designed, developed, and published two cross-platform arcade games on Android and iOS.	

## Skills

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### ML/DL/RL packages

- Pytorch, scikit-learn, Webdatasets, OpenAI Gymnasium

### DL architectures and algorithms

- CNN, RNN, LSTM, Transformer, LLM, GAN, Diffusion, GNN, RAG

### Programming tools and languages

- Python, C++, C#, React Native, JavaScript
- SQL
- Git, Docker, Kubernetes

### Cloud Computing

- AWS

## Honors and Awards

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- Boston College Donald White Teaching Excellence Award, 2024
- Best paper award at Iranian Symposium on Brain Mapping Updates, 2019
- 7<sup>th</sup> place in Asia regional contest, ACM-ICPC, West Asia Site, Tehran, Iran, 2014
- 2<sup>nd</sup> place in National RoboCup Contest, 2D Soccer Simulation, Tehran, Iran, 2010

## Education

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**Ph.D.**, Brain and Cognitive Sciences (GPA 3.96)  
Boston College, Boston, MA

**M.Sc.**, Computer Science  
Amirkabir University of Technology, Tehran, Iran

**B.Sc.**, Computer Science University of Tehran, Tehran, Iran

## Contact Info

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