Hamed Fathi

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ResearchGate: www.researchgate.net/profile/Hamed_Fathi4

EDUCATION	**BSc in Civil Engineering**	Sep 2014 – Mar 2019

Islamic Azad University, Karaj Branch, Karaj, Iran ([Ranked the best university in engineering in Iran based on U.S.News](#))

Cumulative GPA: (3.3/4)

High School Diploma Shahid Soltani
Under the supervision of National Organization for Development of Exceptional Talents (NODET) Major: Math-Physics
Cumulative GPA: (3.5/4)

RESEARCH INTERESTS

- Deep Learning
- Reinforcement Learning
- Machine Learning
- Data Science
- Perception and Motion Planning
- Computer Vision

AWARDS & HONORS

- **Being Accepted to Artificial Intelligence and Robotics Master's Degree Program** in nationwide universities entrance exam in Iran in Islamic Azad University, South Tehran Branch in 2019.
- **Ranked within top 20% of my graduating class** in civil engineering in Islamic Azad University, Karaj Branch.
- **Member of First rank team** in HackaIran which is a branch of HackaGlobal and was a programming challenge for programmers and developers. Me and my friends as a team won this challenge 2 times among 10 to 12 other teams.
- **Be awarded as a top researcher in Startup house** which is a place for teams who work on their ideas for new startups and it's an innovation center in Karaj for startups. Website: https://khanestartup.ir/

PUBLICATIONS	• Almasi, M., **Fathi, H**., Ghaeinian, S.A. & Samiee, S. (2019). Analyzing Human motion recognition from first person POV, case study three basic athletics tasks. Accepted, International Journal of Computer Applications (IJCA) 10.5120/ijca2019919703
	• Almasi, M., Ghaeinian, S.A. & Samiee, S., **Fathi, H**. (2019). Investigating the application of human motion recognition for athletics talent identification using the head-mounted camera. Accepted, 5th International Conference on Inventive Computation Technologies (ICICT-2020)
	• Mirzaei, A., **Fathi, H.** & Aghakochakzadeh, A. (2019). Efficient schwannoma histopathologic image detection using transfer learning and deep learning. *Modern Pathology* (to be submitted)
	• Mirzaei, A., **Fathi, H.**, Aghakochakzadeh, A., Almasi, M. (2019). Interpretation of schwannoma histopathologic image detection using transfer learning and deep learning. (to be submitted)
	• Nourmohammadi, J., **Fathi, H.** (2019). A survey of Self Driving Cars algorithms. (In press)

WORKING & TEACHING EXPERIENCES & PROJECTS	• **Deep Learning Researcher and Developer**: Working on anomaly histopathologic image detection using deep learning and analysis of human pose recognition from first person viewpoint.	Apr 2019 – Present
	• **Self Driving Cars Researcher**: Working with a group of researchers on self driving cars. My Job is reading research papers and writing review of those papers and developing object detection algorithm.	Apr 2019 - Present
	• **Teacher Assistance**: Islamic Azad University, Karaj Branch, Karaj, **T.A** for Dr. Mirhosseini	2015 - 2018
	• **Computer Vision Coder**: Worked on SSD algorithm for plate detection with our team for Municipality of Karaj in Startup House. GitHub: https://github.com/Hamifthi/License-Plate-Detection	Mar 2018 - Jul 2018
	• **NLP and AI Developer**: developing a Restful API system with TensorFlow and Flask for Q&A in NerdPitch which was a presentation platform for presenting ideas in Startup House. GitHub: https://github.com/Hamifthi/text_similarity	Jul 2018 – Sep 2018
	• **Back End Developer**: Working as JavaScript, NodeJS programmer. I developed backend side of admin panel in Test Hub which was A crowd testing app for web/mobile applications that can test everything from Usability to Bug Detection in Startup House.	
	• **Web programming with Django**: When I wanted to learn Django, I made a blog post app to become familiar with Web programming especially Back End development. GitHub: https://github.com/Hamifthi/blog_post-app	

COURSEWORK & ONLINE MOOCS:	Coursework:

Coursework:

- Calculus 2: **17.5/20**
- Physics: **18/20**
- General Programming: **17.5/20**
- Statistics and Probability: **15.5/20**
- Statics: **17/20**
- Quantity surveying and estimating: **17/20**
- Seismic Engineering: **19.1/20**

Online MOOCS:

- **Deep Learning** Specialization DeepLearning.ai
  Coursera: 4 Courses completed, 1 in progress
  coursera.org/verify/ZD2V9BALE43F
  coursera.org/verify/PZSVFAAZRG48
  coursera.org/verify/9UDQRA5ZCX5L
  coursera.org/verify/VAMCC277KZ5N
- **Mathematics for Machine Learning** Imperial
  College London Coursera: Certificate:
  coursera.org/verify/specialization/ZWWDF44ETFRP
- **CS50 Introduction to Computer Science** Harvard
  EDX
- **Algorithms and Data Structures** Stanford
  GitHub: https://github.com/Hamifthi/Algorithms-and-Data-Structures
- **Machine Learning** Stanford (Prof Andrew Ng)
  GitHub: https://github.com/Hamifthi/Machine-Learning-Practice
- **CS231n Convolutional Neural Networks for Visual Recognition** Stanford
  GitHub: https://github.com/Hamifthi/CS231.n-programming-assignment
- **Linear Algebra** MIT OCW (Prof Gilbert Strang)
- **Fast.ai** Deep Learning for coders
- **Reinforcement Learning** DeepMind (Prof David Silver)

SKILLS

- **Programming Languages:** Python (proficient), JavaScript (Experienced), C&C++ (Experienced)
- **Programming Frameworks:** TensorFlow, Fastai, PyTorch, Django, Flask, Scikit_Learn, Node.js, Numpy/Scipy, Mongo DB

LANGUAGE

- **Persian:** Native
- **English:** Fluent

TOEFL IBT score: 97, R:25, L:29, S:21, W:22

GRE score: Will be taken in February 2020

Hamed Fathi

توسعه دهنده نرم افزار / هوش مصنوعی

hamedfathi.s2019@gmail.com　　البرز، کرج

in github stackoverflow

درباره من

آدمی که همیشه دنبال یادگیری هستش و دوست داره چالش هایی که توی دنیای واقعی وجود دارند رو به وسیله علوم مختلفی که بلده یا میتونه یاد بگیره رو در غالب یک کار تیمی حل کنه.

سوابق شغلی

اردیبهشت ۱۳۹۹ تا اکنون　　مهندس نرم‌افزار – Software Engineer

سین اپز، تهران

Docker　PostgreSQL　Linux　Django　React
Redis　Django REST Framework

تحصیلات

بهمن ۱۳۹۸ تا اکنون　　کارشناسی ارشد، مهندسی کامپیوتر_نرم افزار

دانشگاه پیام نور تهران شمال، تهران

مهر ۱۳۹۳ تا بهمن ۱۳۹۷　　کارشناسی، مهندسی عمران

دانشگاه آزاد اسلامی کرج، کرج

مهارت‌ها

مهارت‌های فنی

Python	بین ۲ و ۴ سال
TensorFlow Artificial Intelligence	بین ۱ و ۲ سال
Django REST Framework Django Linux SQL	کمتر از ۱ سال

تکنولوژی‌های مورد علاقه برای کار

Keras   TensorFlow   Django   Python

مهارت‌های نرم

●●●●● مسئولیت‌پذیری   اعتماد به نفس   پشتکار   برنامه‌ریزی
●●●● نوآوری   شوخ طبعی   مهارت حل مساله   مدیریت عملکرد   کار تیمی
●●● مدیریت بحران

گواهی‌ها

Machine Learning Mathematics	اعتبار از بهمن ۱۳۹۸ تا اکنون
Coursera	
Machine Learning	
Deep Learning	اعتبار از دی ۱۳۹۸ تا اکنون
Coursera	
Deep Learning	

پروژه‌های متن‌باز

This is gym project that I made it with django	**gym-app**
CSS HTML Python JavaScript	
بهمن ۱۳۹۸ تا اردیبهشت ۱۳۹۹	
this repository contain codes for courses in field of computer science algorithms and data structures major	**Algorithms-and-Data-Structures**
Python	
آذر ۱۳۹۷ تا بهمن ۱۳۹۷	

سایر پروژه‌ها

محقق   من در 2 تحقیق مشارکت داشتم که حاصلش 2 مقاله چاپ شده و 2 مقاله در دست چاپ هست. نقش من توسعه نرم
افزار و تحقیق و نوشتن و ویرایش مقالات بوده است.

Artificial Intelligence

دی ۱۳۹۸

زبان

فارسی   زبان مادری

انگلیسی   توانمند برای کار