

Amin Taheri

Certified AWS & Azure, Full Stack ML + OPS

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Summary

- MSc in CS and AI with ~ 5 years of combined academic and professional experience in AI R&D.
- Experience deploying **deep learning** applications to cloud infrastructure and building cross-platform APIs.
- Improved financial fraud detection accuracy through applied **machine learning** at Nasdaq-Verafin.
- Demonstrated leadership by supervising teaching assistants and volunteering with the Computer Association.

Experience

- 🔗 Virginia Inc.- Phoenix, US (Remote Part-Time) *AI-driven vendor spend risk analysis and automation* May '25 – Now
 - **AI Engineer**
 - Designing AI agents using **AWS Bedrock Agents** to flag high-risk transactions
 - Building intelligent agent pipelines to automate vendor risk classification.
- 🔗 Coding 4 Veterans (Remote Part-time) - Toronto, Canada *with the UOttawa, offers Tech courses* Apr '25 – Now
 - **AI Instructor/Mentor**
 - Mentoring students for Intro to **Gen AI** and **Prompt Engineering** courses
 - Grading, answering questions and holding 1:1 meetings with students
- 🔗 Memorial University (MUN), St. John's, Canada *is a well-known university with 100+ programs* Dec '24 - Now
 - **PC consultant at HSIMS**
 - Delivered cross-platform infrastructure support (Windows, MacOS, Linux) for research labs.
 - Troubleshooting users and resolving tickets regarding Email Migration, InTune enrollment, and Hardware setup.
 - **Graduate Research Assistant at Bioinformatics LAB,** Sep '21 - Apr '24
 - Applied different Machine/Deep Learning models from Light Gradient Boosting Machines to **Recurrent Neural Nets**
 - Developed BacTermFinder with an ensemble of **Convolutional Neural Nets** to classify terminators
- 🔗 MediSightAI - St. John's, Canada, *Genesis graduate and provides medical insights with AI* Mar '24 – Feb '25
 - **Founding Software Developer**
 - Deployed Deep Learning applications on **SageMaker endpoints**
 - Designed and deployed scalable infra with **Lambda, API Gateway, and S3**
 - Using **Terraform**, integrated **CI/CD automation** with **GitHub Actions**
- 🔗 Nasdaq-Verafin – St. John's, Canada *provides leading AI anti-fraud financial services* Nov '23 – Feb '24
 - **MITACS Researcher**
 - Enhanced financial fraud detection by 36.2% using **Tiny LLAMA** over One Hot by investigating 6 encodings
 - Implemented LightGBM and evaluated performance with 10-fold Stratified Cross Validation on **AWS SageMaker**
- 🔗 Shenasa-ai – Tehran, Iran, *provides Computer Vision and AI SaaS specially in Face Detection* Oct '19 – Feb '20
 - **Software Research Intern (Computer Vision)**
 - Engineered Face Extraction in Video with Retina Face and **OpenCV**, which led to ~ 6x video generation speed up
 - Rebuilt Face Quality Assessment module using Test Driven Development with **CNNs** and LBP.
- 🔗 Rahhat.ir – Tehran, Iran, *was a startup providing social awareness metrics for brands with AI* Oct '17 – Jan '19
 - **Junior Software Developer (NLP)**
 - Developed **data pipelines** for scraping data from Twitter at 180 RPM and executed sentiment analysis in Persian
 - Utilized **LSTM-based** model for **sentiment analysis** with 95.03% accuracy on Digikala Comments dataset

Education

Memorial University (MUN), MSc in Computer Science (Thesis) GPA: 93/100	Sep '21 – Apr '24
Khaje Nasir Toosi University of Technology (KNTU), MASc in AI Engineering GPA: 91/100	Sep '20 – Sep '21
Azad University of Central Tehran (IAUCTB), BSc in Software Engineering GPA: 17.73/20	Sep '16 – Sep '20

Skills

Programming Languages	Python, C++ , JavaScript, HCL, TypeScript, and Bash.
AI and Machine Learning	TensorFlow, PyTorch, Scikit-learn, and Transformers.
AI techniques	Agentic RAG, RLHF, Fine Tuning and Transfer Learning.
Cloud and DevOps	AWS (Serverless & Managed Services), Azure (AI services & Managed DB), Terraform, Docker.
Databases	OpenSearch (Vector DB), DynamoDB, SQL Server, MySQL, SQLite.
Web Technologies	Built websites with Tailwind, React, and Nextjs.
Backend Development	Developed REST APIs and Web Services with Django, Flask, and FastAPI.

Publication

A Comprehensive and General Bacterial Terminator Finder using a CNN Ensemble	Mar 2025
Seyed Mohammad Amin Taheri Ghahfarokhi, Dr. Lourdes Peña-Castillo	
Published at Oxford Academy's NAR Genomics and Bioinformatics 10.1093/nargab/lqaf016	

Selected Projects

MediSightAI landing page (React - Next.js - Tailwind CSS - Netlify)	Oct 2024
<ul style="list-style-type: none">Created landing website with TypeScript and CI/CD with NetlifyDeveloped cross-platform real-time TensorflowJS game on edge devices	
Fraud Data Benchmarking with LLMs (AWS SageMaker, AWS S3, Python, TensorFlow)	Feb 2024
<ul style="list-style-type: none">Benchmarked FDB dataset with different encodings and language models using AWS SageMaker Endpoints.Analyzed the performance of the models empirically and visually with Matplotlib and Seaborn	
Single Face Extractor (OpenCV, Python, RetinaFace)	Nov 2020
<ul style="list-style-type: none">Extracts video clips containing a single face and feeds them to a face recognition model.Utilizes OpenCV, Python, and RetinaFace.	

Leading Experience

President, Computer Science Graduate Society of MUN Head of Student Activities, IEEE student branch President, Computer Association of Central Tehran Branch	Dec 2022 - Feb 2024
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Awards

Best Departmental Poster Award for Scientific Endeavours in Academia Conference (SEA)	Apr 2024
Fellow of the School of Graduate Studies, Memorial University of Newfoundland	Oct 2023
Outstanding Teaching Assistant Award, MUN Dept. of Computer Science	Apr 2023

Selected Certificates

Azure AI fundamentals: Azure AI services - OpenAI studio- AI Fairness and Safety & Compliance)	June 2025
AWS AI Practitioner: AWS - (SageMaker - Gen AI - AI Governance & Compliance)	Apr 2025
_ AI foundations: IBM Skills Build - (Gen AI, Prompt Engineering, IBM Watson-x)	May 2025
Deep Learning Specialization: Coursera - (Computer Vision, NLP, and Speech Recognition)	Apr 2020 - Aug 2020