

Amirali Hosseini Abrishami

CYBERSECURITY RESEARCHER & SYSTEMS DEVELOPER

✉ amir0234@outlook.com
🐙 github.com/Amir0234-afk
👤 amirali-hosseini-abrishami
📍 Tehran, Iran

EDUCATION

M.Sc. Cybersecurity

Sep 2024 - Sep 2026 (expected)

· Tarbiat Modares University

Thesis: GraphRAG-based architectures for knowledge-intensive ML pipelines.

B.Sc. Computer Engineering

Sep 2018 - Sep 2024

· Islamic Azad University

EXPERIENCE

Junior Angular Developer — Intern

May 2024 - Oct 2024

· Nik Andish

Angular · TypeScript · HTML/CSS

Front-end development internship. Built and maintained Angular components for client-facing web applications within an agile team.

SKILLS

Languages	C · Python · Bash · GDScript · (Rust — in progress)
ML / AI	PyTorch · PyTorch Geometric · HuggingFace Transformers · cuML · scikit-learn · Graph Neural Networks
Systems	Linux · POSIX APIs · Docker · GNU Make · systemd
Game Dev	Godot Engine 4 · Unreal Engine 5.1 (Blueprints)
Tools	Git · GitHub Actions · VS Code · Wireshark · strace

SELECTED PROJECTS

Anti-Money Laundering Detection — Elliptic Bitcoin Dataset

[GitHub ↗](#)

Python · PyTorch Geometric · cuML

Graph neural network (GCN, SkipGCN) vs. tabular baseline (Random Forest) comparison for illicit transaction classification on a real-world AML dataset. Accelerated tabular training with GPU via cuML. Random Forest achieved **F1: 0.80** (Precision: 0.90, Recall: 0.72); GNN track revealed limits of graph structure without rich neighbourhood features.

License Plate Segmentation — U-Net

[GitHub ↗](#)

Python · TensorFlow · Keras

3-class semantic segmentation pipeline (background, border ring, plate interior) using a U-Net architecture. Achieved **0.9982 pixel accuracy** on the test set.

D&D AI Game Master

[GitHub ↗](#)

Python · FastAPI · React 19 · TypeScript

Browser-based solo tabletop RPG with an LLM as Game Master. FastAPI backend with provider-agnostic LLM routing (OpenAI, Anthropic, Gemini, Ollama). Persistent memory via rolling summarisation every 10 turns; React 19 + Vite frontend.

ACTIVITIES

Member, Game Developers Association

· Islamic Azad University