

SUMMARY	Machine Learning and Software Engineer with an M.Sc. in Computer Science, experienced in building user-facing software systems across web, cloud, and applied AI domains. Hands-on experience designing, testing, debugging, and deploying end-to-end ML systems using Docker, FastAPI, and cloud platforms. Background spans ML-driven systems, web services, databases, with a strong emphasis on software quality, performance, and maintainability.	
SKILLS	Programming Languages: Python, C++, C#, Java, JavaScript Software Engineering: Object-Oriented Design, Debugging, Testing, Performance Optimization, Agile Development Web & Services: FastAPI, REST APIs, Full-Stack Development Databases: PostgreSQL, MongoDB Cloud & DevOps: Docker, CI/CD (GitHub Actions), AWS, Azure ML & Applied AI: PyTorch, TensorFlow, Scikit-learn, Computer Vision, Reinforcement Learning Tools & Platforms: Linux, Git, Unity, Unreal Engine, ArcGIS	
EDUCATION	M.Sc. in Computer Science, University of Calgary Calgary, Canada	2023 – 2025
	B.Sc. in Computer Engineering, University of Tabriz Tabriz, Iran	2018 – 2022
WORK EXPERIENCE	Serious Games Research Group, Research Assistant Calgary, Canada	Sep 2023 – Present
	<ul style="list-style-type: none"> • Researched the application of AI for procedural content generation in games, leading to publications at international conferences: <ul style="list-style-type: none"> – From Unstable to Playable: Stabilizing Angry Birds Levels via Object Segmentation (AIIDE 2025) – Procedural Content Generation in Games: A Survey with Insights on Emerging LLM Integration (AIIDE 2024) – Exploring the Potential of Generative AI in Prototyping XR Applications (AVI 2024 Workshop) • Implemented PCG repair Pipeline using Python, C#, and Machine Learning models, enhancing procedural content generation efficiency by 45%. 	
	City of Calgary, GIS R&D Intern Calgary, Canada	May 2024 – Sep 2025
	<ul style="list-style-type: none"> • Developed a full-stack web dashboard for city planning data using JavaScript, PostgreSQL, and MongoDB, reducing system runtime by 35%. • Built a Unity-based visualization tool for a Digital Twin Model of the city, increasing user engagement. 	
	Game Developer, Unipoly Games Istanbul, Turkey	Sep 2021 – Jan 2022
	<ul style="list-style-type: none"> • Developed mobile games for iOS and Android using C# and Unity in an Agile environment. 	

PROJECTS

Stock Market Prediction

Course Project

- Developed a model to predict stock market trends using historical data, technical analysis, and time-series analysis.
- Scraped news from Investing.com using Selenium and BeautifulSoup, performed sentiment analysis, and correlated with price trends.

End-to-End ML Pipeline: Churn Prediction

Personal Project

- Built a complete ML pipeline with preprocessing, training (Scikit-learn), and evaluation.
- Deployed via **FastAPI** + **Docker**, tracked experiments with **MLflow**.
- Integrated CI/CD with GitHub Actions for automated testing and deployment.

LLM-Powered Text Summarizer

Personal Project

- Built a text summarization tool using Llama and LangChain APIs.
- Applied prompt engineering and chaining to improve factuality and coherence.
- Deployed as a **FastAPI** REST API containerized with **Docker**.

Humming Bird & Flappy Bird RL Agents

Personal Project

- Developed reinforcement learning agents using imitation learning and **Unity ML-Agents**.

Face Segmentation Mobile App

Personal Project

- Built a real-time face segmentation app using **Unity** and **TensorFlow**.

LEADERSHIP & VOLUNTARY ROLES

Intelligent Narrative Technologies (INT) Workshop Organizer

AIIDE Conference

2024 & 2025

- Co-organized two international workshop on AI-driven narrative systems in games.

VP Internal

CSGS, Dept. of Computer Science, University of Calgary

Jun 2023 – Sep 2025

Member

Robotics Association of Tabriz University

Sep 2022 – Jan 2023