

Shayan Alahyari

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🔗 github.com/ShayanAlahyari

EDUCATION

Western University MSc. Computer Science Thesis: "Enhancing Data Augmentation Techniques In Deep Learning" Supervisor: Prof. Mike Domaratzki GPA: 4.0/4.0	2024 – 2026 London, Canada
Western University BS. Computer Science <u>Major Awards: NSERC Student Research Award</u> GPA: 4.0/4.0	2022 – 2024 London, Canada
Shiraz University BE. Electrical Engineering	2012 – 2016 Shiraz, Iran

NSERC-FUNDED RESEARCH PROJECTS

Software and Machine Learning Engineering for Genomic Selection Funding: <u>Awarded NSERC Student Research Award of \$10,000</u> Supervisor: Professor Mike Domaratzki, Western University Repository: https://github.com/ShayanAlahyari/Advanced-Data-Engineering-for-Machine-Learning-in-Genomic-Selection ↗ <ul style="list-style-type: none">Developed shell and Python scripts to process large genomic datasets for machine learning.Managed and processed over 2TB of genomic data, handling 500+ BAM files across 20+ chromosomes.Conducted BAM indexing, filtering, base recalibration, variant calling, and SNP filtering.Improved processing efficiency by 30% through optimized parallel computing on servers.Utilized technologies including GATK, Miniconda, samtools, parallel, Java, and Python.	May 2024 – Sep 2024
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PERSONAL PROJECTS

Histopathologic Cancer Detection Project Repository: https://github.com/ShayanAlahyari/Histopathologic_Cancer_Detection ↗ <ul style="list-style-type: none">Designed and trained a deep Convolutional Neural Network (CNN) in PyTorch for cancer classification, integrating GAN-generated synthetic images to improve model robustness and accuracy.Implemented advanced data augmentation methods and leveraged GPU acceleration to optimize training processes, increasing computational efficiency and reducing training time.Achieved a high validation AUC of 0.989, demonstrating effective and reliable cancer detection through enhanced deep learning techniques.	2024 – 2025
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PROFESSIONAL EXPERIENCE

FINANCIAL ADVISOR

CURO Financial Technologies Corp

Jul 2019 – Nov 2022

London, Canada

- Built strong **client relationships** and achieved **95%+ satisfaction** by providing excellent service to clients in multiple industries.
- Analyzed and cleaned **financial data** from multiple sources to improve client financial decisions by **20%**.
- Created easy-to-use **financial guides** that boosted client understanding and increased tool usage by **30%**.

ELECTRICAL ENGINEER

Gishay Negar

Jun 2016 – Jul 2018

Shiraz, Iran

- Designed electronic **circuits/systems** for **20+ applications** using advanced technology, boosting system efficiency and performance by **30%**.
- Improved **circuit reliability** by **25%** and cut **energy use** by **20%** using simulation tools across multiple projects.
- Created testing protocols and ran **100+ tests**, ensuring **95% compliance** with performance standards.

TEACHING POSITIONS

Graduate Teaching Assistant

Western University, Faculty of Science

Sep 2024 – present

- Teaching assistant for Coding Essentials: Introduction to Python (CS 1026)
- Supported **1:1 student learning** through email, tutorials, and office hours.
- Debugged **Python code** and taught core programming concepts to improve problem-solving skills.

TECHNICAL SKILLS

- **Languages:** Python, Java, C, C++, SQL, Bash Shell
- **Tools:** Git, Docker, AWS, MySQL, .NET, ASP.NET, Agile
- **Libraries:** TensorFlow, PyTorch, React, Node.js, Django, Bootstrap, RESTful APIs