

Zhila Bahrami, Ph.D.

ML Scientist – Research and Development

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in [zhila-bahrami](#)

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Technical Skills

Programming languages	Python, Java, SQL, MySQL, Oracle, C++, MATLAB, Typescript
Machine Learning Frameworks	Pytorch, Tensorflow, Computer Vision NVIDIA AI
Data Science Frameworks	Pandas, SQL, Scikit-Learn, Tableau
Tools	OpenCV, Pyvips, Pillow, Git, NVIDIA Jetson, Raspberry Pi, Arduino
Deep Learning Neural Network	Mask-RCNN, Faster RCNN, Dectron2, RetinaNet, ResNet, Yolo, Transformers, Attention

Work Experiences

- 2023 – 2025 **Full-time Employee, Aerium Analytics Inc, Calgary, AB**
Developing CV-ML algorithms to measure runway markings at airports
- 2022 – 2024 **Part-time Employee, BC Cancer Center, Kelowna, BC**
Developing ML-based algorithms to detect Radiation Pneumonitis in CT images
- 2021 – 2022 **Internship, BC Cancer Center, Kelowna, BC**
Developing ML-based algorithms to detect non-small cell lung cancer detection in CT images
- 2021 – 2022 **Internship, Intelliview, Calgary, AB**
Developing ML-based algorithms to detect liquid leakage in thermal images
- 2019 – 2021 **Internship, Canscan Inc, Montreal, QC**
 - Developing ML-based algorithms to detect shipping container security seals in RGB images
 - Developing ML-based algorithms to detect shipping container defect detection in RGB images

Education

- Ph.D. **Electrical Engineering — University of British Columbia — Canada**
- MSc **Electrical and Computer Engineering — University of Kurdistan — Iran**

Volunteer

- 2020 **Team Lead, University of British Columbia**
Leading a capstone team of undergraduate students from UBC to develop a deep learning-based framework for obstacle detection at terminals.
- 2023 **Team Lead, Aerium Analytics Inc.**
Leading a capstone team of undergraduate students to develop a OpenCV-based framework to detect small object anomalies using the images captured from laser mounted on small machine.

Skills

Applied Machine Learning, Artificial Intelligence (AI), Python, C++ Programming Language, Java Programming Language, Computer Vision, Convolutional Neural Networks, Data Visualization, Deep Learning, Deep Neural Networks (DNNs), Git, Image Classification, Image Recognition, Jupyter Notebook, Machine Learning, Machine Learning Algorithms, Object Classification, Object Detection, Object Identification, Object Recognition, Python Numpy, Python Sqlite3, PyTorch, Scene Understanding, Scikit-Learn, Structured Query Language (SQL), My Structured Query Language (MySQL), Oracle, Supervised Learning, Anomaly Detection, Instance Segmentation, Cloud Computing AWS, SageMaker, EC2, Pyvips, Raster Data, GIS, Azure Pipeline, Identity Server, Vercel, Dashboard, Typescript, Attribute Rules, LLM, RAG, Agent AI, Lang Chain.