

# ALICE GIOLA

(208) 760-7901 | [alix.giola03@gmail.com](mailto:alix.giola03@gmail.com) | [alicegiola.com](https://alicegiola.com) | [GitHub](https://github.com) | [LinkedIn](https://www.linkedin.com)  
Pocatello, ID, USA

## Skills

- **Soft Skills:** Communication (written & verbal) | Time Management | Problem-Solving | Team Collaboration | Adaptability | Goal-Oriented | Self-Motivated | Strong Work Ethic | Detail-Oriented | Creativity | Customer Service
- **Coding:** C# | C++ | C | Python | Java | SQL | HTML | CSS | JavaScript | Git | Front End | Back End
- **Technologies/Environment:** Falcon | JupyterLab | Visual Studio | Github | Windows | macOS | Linux | iOS | Android | Microsoft Office | Google Workspace
- **Languages:** English, Italian – C2: Native or bilingual proficiency | Chinese – A1: Elementary proficiency (HanBan YCT3)

## Experience

- ML & Spectroscopy Research Assistant

[Idaho State University](#)

Pocatello, ID

1/2025 - Present
- Tested and evaluated deep learning model (CNN & feedforward) on spectroscopy dataset using Python, PyTorch, NumPy, Matplotlib.
  - Implemented code additions for data normalization and preprocessing in Python.
  - Conducted statistical validation to ensure model reproducibility and accuracy.
  - Interpreted results and assessed performance against baseline models.
- ML & Neural Activity Research Assistant

[Idaho State University](#)

Pocatello, ID

11/2024 - Present
- Tested and debugged Python-based ML models for neural activity prediction, utilizing NumPy, SciPy, TensorFlow.
  - Processed and analyzed EEG data, applying ML algorithms to identify spatiotemporal patterns in neural activity.
  - Utilized PyTorch, PCA, Sklearn, and custom neural network architectures to analyze EEG data and optimize model accuracy.
- Applied AI and ML Trainee

[HoT-AML](#)

Pocatello, ID

08/2024 - 12/2024
- Trained and optimized deep learning models using PyTorch, improving model accuracy.
  - Gained hands-on experience with AI and ML techniques, tailored to address real-world applications.
- Capstone Project Student

[Idaho State University](#)

Pocatello, ID

01/2024 - 05/2024
- Obtained the top project award for outstanding visualization and interactivity.
  - Developed interactive features for dynamic visualization of tree operations, enhancing educational utility and making complex structures easy to grasp for future students.

## Education

- Bachelor of Science

[Idaho State University](#)

Pocatello, ID

12/2024
- Major in Computer Science | Cybersecurity Academic Certificate | GPA: 3.87
  - **Relevant Coursework:** Object-Oriented Programming | Advanced Algorithms | Data Structures | Compilers | Secure Operating Systems | Software Engineering | Threat Intelligence | Cybersecurity and Resilience | Secure Systems and Networks | Advanced Computational Theory | Statistical Methods | Professional and Tech Writing | Graphic Design

## Projects

- [Personal Portfolio Website](#) (HTML/CSS/Javascript): Custom-built portfolio website with responsive design.
- [B-Tree and B+Tree visualizer](#) (C#): Interactive B+Trees application for understanding of their operations and efficiencies.
- [Custom Space Invaders Video Game](#) (C#): Custom version of Space Invaders game, with unique features and challenges.
- [TSP Solver with 4-OPT](#) (Python): TSP solver application with optimized Greedy algorithm using 4-Opt Local Search for efficient routing.
- [Album Collection Manager](#) (SQL, Python): Full CRUD database system for organizing albums and musical records.