

ALICE GIOLA

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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:** 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.