ALICE GIOLA

■ (208) 760-7901 | Malix.giola03@gmail.com | alicegiola.com | GitHub | LinkedIn Pocatello, ID, USA

Skills

- Soft Skills: Excellent Written and Verbal Communication | Interpersonal Skills | Customer Relation Skills | Time Management | Organizational Skills | Problem-Solving | Team Collaboration | Adaptability | Goal-Oriented | Self-Motivated | Strong Work Ethic | Detail-Oriented | Creativity Skills | Customer Relation | Strong PC Skills | Innovative Mindset
- Coding: C# | C++ | C | Python | Java | SQL | HTML | CSS | JavaScript | JSON | Git | Front End | Back End
- Technologies/Environment: Falcon | JupyterLab | 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

National Institutes of Health

Pocatello, ID, USA

1/2025 - Present

- Designed and implemented CNN & feedforward models for spectroscopy dataset analysis (.mat files) using Python, PyTorch, NumPy, Matplotlib.
- Developed a data preprocessing pipeline for spectroscopy analysis, improving signal extraction and reducing noise.
- Conducted statistical validation to ensure model reproducibility and accuracy.

ML & Neural Activity Research **Assistant**

National Institutes of Health

Pocatello, ID, USA 11/2024 - Present

- Processed and analyzed EEG data, applying ML algorithms to identify spatiotemporal patterns in neural activity.

Developed Python-based ML models for neural activity prediction, utilizing NumPy, SciPy, TensorFlow.

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. USA 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, USA 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, USA

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 _

- 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.