

# 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 | JSON | 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

<b>ML &amp; Spectroscopy Research Assistant</b>	<a href="#">National Institutes of Health</a>	Pocatello, ID, USA	1/2025 - Present
<ul style="list-style-type: none"><li>• Tested and evaluated deep learning model (<b>CNN &amp; feedforward</b>) on spectroscopy dataset using <b>Python, PyTorch, NumPy, Matplotlib</b>.</li><li>• Implemented code additions for data normalization and preprocessing in <b>Python</b>.</li><li>• Conducted <b>statistical validation</b> to ensure <b>model reproducibility and accuracy</b>.</li><li>• Interpreted results and assessed performance against baseline models.</li></ul>			
<b>ML &amp; Neural Activity Research Assistant</b>	<a href="#">National Institutes of Health</a>	Pocatello, ID, USA	11/2024 - Present
<ul style="list-style-type: none"><li>• Tested and debugged Python-based ML models for neural activity prediction, utilizing <b>NumPy, SciPy, TensorFlow</b>.</li><li>• Processed and analyzed EEG data, applying ML algorithms to identify spatiotemporal patterns in neural activity.</li><li>• Utilized <b>PyTorch, PCA, Sklearn</b>, and custom neural network architectures to analyze EEG data and optimize model accuracy.</li></ul>			
<b>Applied AI and ML Trainee</b>	<a href="#">HoT-AML</a>	Pocatello, ID, USA	08/2024 - 12/2024
<ul style="list-style-type: none"><li>• Trained and optimized deep learning models using <b>PyTorch</b>, improving model accuracy.</li><li>• Gained <b>hands-on experience with AI and ML techniques</b>, tailored to address real-world applications.</li></ul>			
<b>Capstone Project Student</b>	<a href="#">Idaho State University</a>	Pocatello, ID, USA	01/2024 - 05/2024
<ul style="list-style-type: none"><li>• Obtained the <b>top project award</b> for outstanding visualization and interactivity.</li><li>• Developed <b>interactive features</b> for <b>dynamic visualization</b> of tree operations, enhancing educational utility and making complex structures easy to grasp for future students.</li></ul>			

## Education

<b>Bachelor of Science</b>	<a href="#">Idaho State University</a>	Pocatello, ID, USA	12/2024
<ul style="list-style-type: none"><li>• Major in <b>Computer Science   Cybersecurity Academic Certificate</b>   GPA: 3.87</li><li>• <b>Relevant Coursework:</b> 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</li></ul>			

## Projects

- [Personal Portoflio 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.