



# Maxwell Cole

Boise, ID | [max.cole4444@gmail.com](mailto:max.cole4444@gmail.com) | (208) 841-6469  
Portfolio: [bit.ly/MaxCole](https://bit.ly/MaxCole) | GitHub: [github.com/MaxwellCole9](https://github.com/MaxwellCole9)

## Projects

### Protobiota

Built a modular artificial life simulation in C++/C#, enabling customized genetic mutation and adaptive behavioral modeling in microbiological systems. Implemented algorithmic models inspired by evolutionary processes to simulate learning and adaptation over time.

### Sequence-to-Sequence Translator

Developed a German-to-English translator using autoregressive recurrent neural networks, trained on the Multi30k dataset for sequence-to-sequence translation. Implemented an encoder-decoder architecture using PyTorch and TensorFlow with focus on training optimization and language modeling.

### Property Count Scraper

Worked with a national company to develop a web scraper using Python and Selenium to extract property data from vacation rental websites. Focused on data accuracy, automation reliability, and cross-site compatibility.

## Experience

### Against Creative Agency | May 2024 - April 2025

Interned at a Boise-based creative agency, contributing to web development and digital content for both local and national clients. Supported marketing efforts through campaign planning and data analysis. Continued working with Against post-internship on freelance projects, serving as a project lead.

### MX.CO Software & Design | April 2020 - April 2025

Led freelance projects focused on research, development, and design, specializing in data automation, AI integration, and client-side applications. Developed AI tools for client engagement platforms and user-focused solutions across visual and technical domains. Managed communication, execution, and delivery independently.

## Honors & Awards

**Dean's List** | Oregon State University | Spring 2023/2024

**Outdoor Leadership Award** | Riverstone International School

## Skills

### Programming Languages:

C/C++, Python, HTML, CSS, MASM, JavaScript, SQL

### Artificial Intelligence & ML:

PyTorch, TensorFlow, Wandb, Neural Network design, unsupervised learning

### Software Development & Tools:

Git/GitHub, VS Code, Android Studio, Database design, CI/CD pipelines, Agile/Scrum methodologies

### Web & UI Development:

Node.js, Flask, React, Full-stack development, SEO optimization, RESTful APIs, Docker, Postman

## Education

### Oregon State University

Computer Science - Artificial Intelligence Focus  
3.49 GPA | Graduated March 2025

### Riverstone International School

International Baccalaureate Degree  
Graduated June 2020