Based on the document's focus on careers that make a positive impact and the individual's background in biology and coding, here are 3-7 additional insights for potential career paths:

1. **Bioinformatics Specialist** - Combining biology and coding to analyze biological data, such as genetic sequences, to advance medical research or environmental conservation.
2. **Health Tech Developer** - Designing software or applications for healthcare, such as patient management systems, telemedicine platforms, or wearable health monitoring devices.
3. **Environmental Data Analyst** - Using coding skills to analyze environmental data for conservation efforts, climate change research, or sustainable development projects.
4. **Medical Software Engineer** - Developing tools for hospitals, such as diagnostic software, medical imaging systems, or electronic health record platforms.
5. **Biotech Product Manager** - Overseeing the development of innovative biotech products, bridging the gap between biology expertise and technical software solutions.
6. **AI Specialist in Healthcare** - Applying artificial intelligence to solve healthcare challenges, such as disease prediction, drug discovery, or personalized medicine.
7. **Educational Content Developer (STEM)** - Creating interactive coding or biology-related educational tools, apps, or platforms to inspire and teach others.

These roles align with the individual's desire to make a meaningful impact while leveraging their unique combination of biology and coding expertise.

**Future brainstorming - Job and organizations**

**Diverse Remote-Friendly Roles (with Coding + Background Fit - Table** with career paths that balance your process improvement, conservation, tutoring, and communication skills with your **emerging coding abilities** from CodeCrew.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Titles - Example | Keywords | Org. Match: Skills | Org. Match: Interests | Additional Info Needed |
| Data Analyst / Junior Data Scientist / BI Developer | SQL, Python, dashboards, visualization, analytics | Deloitte, Humana, Accenture, Leidos | Ducks Unlimited, The Nature Conservancy, Apopo | Preferred industries (health, conservation, nonprofit, finance)? |
| Research Data Coordinator / Research Informatics Associate | Health data, research integrity, student demographics, quality, compliance | St. Jude, Mayo Clinic, Flatiron Health | WHO, NIH, Global health NGOs | Comfort with clinical/health terms, IRB exposure? |
| Junior Software Developer / Backend Engineer (Entry-Level) / API Integration Specialist | Python, JavaScript, Git, APIs, debugging | Code for America, GitHub, Automattic, Zapier | Wildlife nonprofits, civic tech groups, open-source projects | Preferred stack focus (Python/Django vs. JS/React)? |
| Instructional Designer (Tech-Focused) / Learning Technology Specialist / EdTech Developer | e-learning, LMS, training, UX, content design | Coursera, Khan Academy, Duolingo, Instructure | Memphis Zoo education dept., Smithsonian learning lab | Do you want to stay tied to education/teaching? |
| Conservation Technology Specialist / GIS Analyst / Remote Sensing Data Developer | ArcGIS, spatial data, remote sensing, ecology, conservation | Esri, NASA contractors, Mapbox | Ducks Unlimited, WWF, NatureServe | How much GIS experience vs. coding do you want to highlight? |
| Business Process Analyst / Automation Specialist / Operations Analyst | Workflow, process improvement, RPA, dashboards | IBM, UiPath, Accenture, Guidehouse | Apopo, nonprofit admin orgs, eco-NGOs | Preferred mix of coding vs. process improvement? |
| AI/ML Data Annotator / Model Trainer / NLP Support Specialist | AI training, labeling, natural language, annotation | Scale AI, Appen, Surge AI | Citizen science AI, wildlife monitoring AI, open-source ecology AI | Openness to short-term contract/part-time roles? |
| Program Associate (Tech for Nonprofits) / Project Coordinator (Digital Tools) / Grant Data Manager | Nonprofit, reporting, CRM, dashboards, metrics | TechSoup, NetHope, Idealist-network orgs | Ducks Unlimited, Conservation International, GlobalGiving | Openness to hybrid “admin + coding-lite” roles? |

**Monthly Plan** (Sep to mid-Mar. graduation) **– Two Versions**

|  |  |  |
| --- | --- | --- |
| **Month** | **Version A: Steady + Structured Plan** | **Version B: Accelerated + Front-Loaded Plan** |
| **Sep.** | Organize job search: set up a tracker, update resume/LinkedIn, research 20–30 orgs, identify job boards. | Portfolio first: start a GitHub repo, begin personal project (eco-dashboard, registry tracker, or nonprofit process app). Update resume + master cover letter template. |
| **Oct** | Light applications: apply to 3–5 remote internships/entry-level data/coding roles; join virtual career fairs; begin networking messages. | Heavy applications: 8–10 roles/week, especially contract, internship, or part-time coding/data roles. Begin interview prep. |
| **Nov.** | Build portfolio: 2–3 small GitHub projects (data dashboards, simple apps). Tailor resume for data + coding roles. | Networking sprint: 20+ outreach messages to alumni, conservation org staff, and recruiters. Showcase projects on LinkedIn. |
| **Dec.** | Apply in earnest: 5–7 solid applications/week. Practice mock interviews. Reach out to CodeCrew alumni. | Interview focus: refine STAR answers, mock technical interviews. Apply to “stretch” roles that interest you. |
| **Jan.** | Targeted networking: informational interviews (2–3 per week). Apply for fellowships, internships, and full-time roles. | Mid-point push: target orgs aligned with conservation, nonprofits, or research. Apply for full-time March start roles. |
| **Feb.** | Focused job applications (10+/week). Prioritize remote-friendly orgs that hire March–June grads. | Narrow and deepen: chase leads, follow up on apps, attend virtual hiring events. |
| **Mar.** | Graduation month. Schedule final-round interviews. Negotiate offers. Target start date April–May. | Graduation showcase: publish capstone/project portfolio, announce availability on LinkedIn, pursue 2–3 final applications weekly. |

With wildlife/ecology + process improvement + coding, recommended to focus on **3 roles** - bridge interests, build credibility, & allow remote

**1. Conservation Technology Specialist / GIS Analyst / Remote Sensing Data Developer**

* **Why fit?** Connects directly to wildlife/ecology, leverages data + coding, and fits with conservation nonprofits and global orgs.
* **Growth path:** Could evolve into a technical specialist with Ducks Unlimited, The Nature Conservancy, WWF, or NASA contractors.

**2. Business Process Analyst / Automation Specialist / Conservation Operations Analyst**

* **Why fit?** Uses your strong process improvement background, while layering in automation/coding skills (Python, SQL, RPA).
* **Growth path:** With nonprofit/NGO program efficiency roles, or eco-org operations where impact = better conservation outcomes.

**3. Program Associate (Tech for Nonprofits) / Grant Data Manager**

* **Why fit?** Mixes your nonprofit + conservation interest with coding-lite, data dashboards, and reporting. A natural hybrid of your past career and emerging skills.
* **Growth path:** A springboard into larger conservation project management or donor-impact reporting roles.

**Portfolio Project Ideas:** Build **one showcase project per role** before graduation — each practical, ecology/process-centered, and demonstrative of coding ability:

**Role 1: Conservation Technology Specialist / GIS Analyst - Portfolio Project Idea:**

* **Title:** *Habitat Change Visualizer*
* **Description:** Build a small web or desktop app that takes open satellite data (e.g., NASA Earthdata, USGS Landsat, or Copernicus Sentinel-2), overlays it with conservation areas, and highlights deforestation or wetland change over time.
* **Skills shown:** Python (data wrangling), GIS libraries (geopandas, rasterio, folium/leaflet for maps), visualization.
* **Deliverable:** Interactive map + GitHub repo with code and simple tutorial.

**Role 2: Business Process Analyst / Automation Specialist - Portfolio Project Idea:**

* **Title:** *Wildlife Grant Tracker Dashboard*
* **Description:** Simulate a nonprofit grant application process with dummy data. Automate reporting: status updates, financial summaries, and reminders.
* **Skills shown:** SQL (data storage), Python or Excel macros (automation), visualization (Power BI/Tableau/Matplotlib).
* **Deliverable:** Dashboard that shows funding streams, deadlines, and outcomes.

**Role 3: Program Associate (Tech for Nonprofits) - Portfolio Project Idea:**

* **Title:** *Conservation Impact Reporting Tool*
* **Description:** Build a lightweight reporting tool where an NGO can input volunteer hours, donor funds, and conservation outcomes (trees planted, wetlands restored). Generates auto-updated PDF/HTML reports.
* **Skills shown:** Python (reportlab or pandas), automation, clean UI (maybe Streamlit).
* **Deliverable:** GitHub repo + sample report PDF showcasing “mock” Ducks Unlimited or Apopo results.

✨ These three projects would:

* Give you **concrete GitHub code** to show employers
* Match your **career story** (ecology + process improvement)
* Be **scalable** — you can build a “lite” version in weeks, then polish it later

Alignment of **3 portfolio projects** into your September–March timeline in a way that fits alongside CodeCrew’s coursework and job prep. The key is to **stagger the projects’ start, etc.**: start small, build incrementally, and have each project ready to showcase before graduation.

**Project Timeline (Sep–Mar)**

**September – Orientation & Setup**

* **Focus:** Organize, don’t overcommit.
* Update GitHub, LinkedIn, resume draft.
* Create project folders/repos with readme files (placeholders).
* Sketch the *scope* of each project (1–2 sentences each).

**October – Prototype 1: Conservation Technology (GIS)**

* **Habitat Change Visualizer**
  + Week 1–2: Learn & test geospatial libraries (geopandas, folium).
  + Week 3: Prototype a map showing one dataset (wetland boundary or forest cover in TN).
  + Week 4: Write a short GitHub readme (“early prototype”).
* Light job search: 3–5 easy applications + networking.

**November – Prototype 2: Process Automation Dashboard**

* **Wildlife Grant Tracker Dashboard**
  + Week 1–2: Collect dummy data (grants, deadlines, $ amounts).
  + Week 3: Build a simple SQL or Excel version with basic automation.
  + Week 4: Add one visualization (chart or progress bar).
* Job search: increase to 5–7 apps/week.
* Networking sprint before holidays.

**December – Prototype 3: Nonprofit Impact Reporting Tool**

* **Conservation Impact Reporting Tool**
  + Week 1: Draft mock dataset (volunteer hours, donor $, acres restored).
  + Week 2–3: Use Python (pandas + reportlab or Streamlit) to generate auto reports.
  + Week 4: Publish first version on GitHub with sample outputs.
* Apply consistently (5–7 apps/week).
* Prep for technical interviews (basic Python, SQL, logic).

**January – Iteration & Polishing**

* Polish all **3 prototypes**:
  + Habitat Visualizer → add a second dataset (e.g., change over time).
  + Grant Tracker → add a deadline notification feature.
  + Impact Reporting → improve design (charts, cleaner report).
* Record **short demos (2–3 min Loom videos)** for LinkedIn + portfolio.
* Networking focus: informational interviews (2–3 per week).

**February – Showcase & Applications**

* Create a **Portfolio Hub Page** (GitHub Pages or Notion) linking all 3 projects.
* Write short blog-style summaries: “Why I built this” + “Skills used.”
* Share at least 2 projects on LinkedIn with screenshots.
* Job apps: 10+/week, focus on March/April start dates.
* Mock technical + behavioral interviews weekly.

**March – Graduation & Launch**

* Publish final versions of all 3 projects.
* Announce portfolio + graduation on LinkedIn.
* Target final interviews/offers.
* Prepare to start new role April–May.

✅ By March: you’ll have **3 real projects** (ecology + process + nonprofit focus), plus demos, GitHub code, and a portfolio site — enough to stand out in job apps.

*See next page for a visual 1-page roadmap (like a Gantt-style chart) - Glance and track progress month by month*

**Roadmap (monthly) - Glance and track progress**

A graph with colorful squares

AI-generated content may be incorrect.

Simple, vertical, web-post version

A diagram of a chart

AI-generated content may be incorrect.