

# JEFFREY BARDWELL

Software Developer. Scientist.

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## PERSONAL PROJECTS

### Schedule Board: Kanban Scriptorium

[DESIGN](#)

[CODE](#)

[DEMO](#)

Novel kanban board that prioritizes features, allows the user to assign prerequisites and tasks, and automates progression. Built with HTML, CSS animations, and JavaScript local storage.

### Narrative Game: Five Minute Fantasy

[DESIGN](#)

[CODE](#)

[DEMO](#)

Modular adventure game proof-of-concept that adapts to player choices using systemic narrative, time, location and encounter mechanics. Built using HTML Canvas, CSS, and JavaScript.

### Frontend Website: Portfolio Projects

[DESIGN](#)

[CODE](#)

[DEMO](#)

Dynamic webpage that displays and organizes software project data using a single page application design. Created using custom graphics. Built using HTML, CSS Grid, and JavaScript Mermaid.

### Application: Bacteria Lot Identification Matrix

[CODE](#)

Interactive GUI that identifies unknown isolates using biochemical tests and can display results for known strains. Also factors for sample collection and culture media. Built using Python Tkinter.

## RELEVANT EXPERIENCE

**Research Scientist:** Aptagen, LLC      Jacobus, PA      09/2021 – present

NAICS Code 541714: Research and Development in Biotechnology (except Nanobiotechnology)

I created JSON research archival databases and investigated biotechnology AI/ML models. My efforts allowed us to more efficiently assess grant opportunities and visually conceptualize data.

**Data Scientist:** White Rabbit Intel, LLC      Durham, NC      03/2020 – 08/2020

NAICS Code 518210: Data Processing, Hosting, and Related Services

I refactored existing Python 3.6 spaghetti code into a series of concise functions. My coding and collaborations helped our software-as-service startup keep the product launch date on schedule.

**Proposal Coordinator:** A Square Group, LLC      Frederick, MD      11/2019 – 05/2020

NAICS Code 541611: Admin. Management and General Management Consulting Services

I researched healthcare contract opportunities, wrote Agile proposals, and acted as a stakeholder communications hub. My efforts helped our company submit five proposals and land one contract.

**Web Developer:** Twigboat Press, LLC      Brookneal, VA      05/2017 – 11/2019

NAICS Code 511130: Book Publishers

I used GIMP 2.8 to make promotional graphics. I coded R 2.15 scripts to correlate ebook sales and set up a Sendy ESP to post newsletters via AWS SES. This resulted in a marked sales uptick.

**Lecturer:** Longwood University      Farmville, VA      08/2013 – 05/2016

NAICS Code 611310: Colleges, Universities, and Professional Schools

I taught an R-centric course to undergraduate science majors demonstrating experimental design, data sorting, and model testing. The course boosted student coding literacy and critical thinking.

## HOBBIES

aquaponics, cooking, community theater, gardening, woodworking, writing novels