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.

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 single page application functionality. Created using custom graphics. Built using HTML, CSS, 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.

EDUCATION

Ph.D. Biology, Baylor 2013 | M.S. Biology, Sul Ross 2006 | B.S. Wildlife Sci, VA Tech 2004