

JEFFREY BARDWELL

Software Developer. Scientist.

[EMAIL: jhbardwell@gmail.com](mailto:jhbardwell@gmail.com) | [PORTFOLIO: https://jhbardwell.github.io/](https://jhbardwell.github.io/) | LOCATION: Jacobus, PA

PERSONAL PROJECTS

- Frontend Website: Portfolio Projects** [DESIGN](#) [CODE](#) [DEMO](#) 04/2022
Dynamic website that displays and organizes software project data using a single page application design. Created using GIMP custom graphics. Built using HTML, CSS Grid, and JavaScript.
- Narrative Game: Five Minute Fantasy** [DESIGN](#) [CODE](#) [DEMO](#) 03/2022
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.
- Application: Bacteria Lot ID Matrix** [CODE](#) 05/2012
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 to streamline client service workflows allowed us to efficiently visualize real-time data.
- Data Scientist:** White Rabbit Intel, LLC Durham, NC 03/2020 – 08/2020
NAICS Code 518210: Data Processing, Hosting, and Related Services
I refactored Python 3.6 spaghetti code into concise functions. I developed a modular AWS S3 bucket framework using boto3 and virtualenv, and improved our software-as-a-service model.
- Proposal Coordinator:** A Square Group, LLC Frederick, MD 11/2019 – 05/2020
NAICS Code 541611: Admin. Management and General Management Consulting Services
I researched IT and healthcare small business grant opportunities. I edited Agile white papers, coordinated stakeholders, and 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 and maintained the company WordPress site. I created a JavaScript newsletter generator and sent newsletters via AWS EC2 SES, boosting sales.
- Lecturer:** Longwood University Farmville, VA 08/2013 – 05/2016
NAICS Code 611310: Colleges, Universities, and Professional Schools
I created an undergraduate R-centric course demonstrating experimental design, analysis, and presentation. This increased student coding literacy, problem solving, and critical thinking skills.

EDUCATION

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| Ph.D. Biology | Baylor University | 05/2013 |
| M.S. Biology | Sul Ross State University | 12/2006 |
| B.S. Wildlife Science | Virginia Polytechnic Institute and State University | 05/2004 |
| B.S. Biology | Virginia Polytechnic Institute and State University | 05/2004 |