

Selected Works

The Safety Net of Safety Nets (2023)

Timeframe: 2.5 weeks

An analysis of P2P mutual aid funding data in the context of traditional social programs/nonprofits.

Stack: Python (NLTK, SciKit); Jupyter (Pandas, matplotlib, numpy); Regex; ML (GPT); git; Quarto; Observable + JS; Adobe Ai + Ps

Westminster's Top Dogs (2023)

Timeframe: 2.5 weeks

An analysis on the history of the Westminster Dog Show and the Best in Show winners.

Stack: requests; lxml; Jupyter (pandas, numpy); git; RAWgraphs; D3 + JS; HTML/CSS; Figma; Adobe Ai + Ps

Experience

Data Journalist

June 2023 — Present

I produce data-driven journalistic work; methods range from technical (data collection, statistical analysis), to design (prototyping, visualization) and traditional journalism.

UX + Product Design Consultant (IC)

July 2018 — June 2023

Self - employed

I design MVPs and ship user-centric products.

- Mutually (July 2021 - May 2022)

I lead the design, development, and technical research for Y-Combinator incubation.

- Wellbeing+ (Nov 2019 - Dec 2020)

I translated back-end infrastructure into user features; I lead the end-end design process from conception to MVP* and design systems.

**My MVP design for Wellbeing+ finished in the top 3 percentile at IBM's 2020 Think Build Grow competition.*

Writer + Editor

Nov 2017 — June 2018

Self - employed

I researched and produced written works along with editing and proofreading services for University of British Columbia based clients.

Data Scientist

May — Sept 2016

Ontario Institute for Cancer Research

I extracted and prepared large datasets on lab graphing data to automate scientific figure development using Perl, Regex, and HPC. Datasets then underwent statistical analysis and were visualized in R.

Bioinformatician + Designer

Jan 2015 — Sept 2016

UWaterloo iGEM

I designed models* of biological systems using Python, MATLAB, and BioLinux; I also lead the UI design of the 2015 & 2016 project pages.

**My work won best overgrad software tool at the 2015 international iGEM competition with UWaterloo winning Gold.*

Designer + Developer

May — Aug 2015

Sparkgig

I created UX assets (wireframes, prototypes) and implemented responsive front-end designs.

Education

Columbia University — Graduate School of Journalism (2023)

Data Journalism — Lede

University of Waterloo (2018)

BSc. Honours Biology; Mathematics Minor

Computational biology specialization

Areas of Expertise

Technical Overview

Scripting / Dev Unix (CLI) Scraping / APIS

Data Visualization ML/AI Statistical Analysis

LaTeX / Markup Version Control HTML / CSS

Language Proficiency

Python, JS, Regex, MATLAB, R, Perl, Scheme, Bash

Tools, Libs, Stacks Used

D3, Observable; Jupyter Lab (Pandas, matplotlib, Numpy); git, SVN; lxml, BeautifulSoup; Linux (Ubuntu, Kali); Vim; SSH, HPC; ai2html; Svelte; Webflow; Selenium; Datawrapper, RAWgraphs; Excel, Sheets; GeoJSON, QGIS, Mapbox; Quarto

Design (UX, product, graphic)

Figma Adobe Creative Suite Sketch

UI Wireframing Interaction Design UX Writing

User flows Design Systems Prototyping

UX Strategy User Research Ethnography

Miscellaneous

Visual Identity Workshopping Illustration

Technical, Copy, Grant, FOIA Writing Editing

Associations + Certifications

Registered Graphic Designers

Provisional RGD (2022 — present)

Junior Affiliate (2020 — 2021)

IBM Enterprise Design Thinking

Team Essentials for AI certification (2020)