Mark Schulist

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Education

Washington University in St. Louis — St. Louis, MO
BS in Data Science — *Aug 2023 - May 2027*

Experience

Research Assistant — Aug 2021 - Present
California Academy of Sciences — *San Francisco, CA*

- Wrote scripts to ingest the outputs from an acoustic machine learning classifier
- Assisted in creating a Bayesian hierarchical occupancy model in JAGS
- Created simulations to test our model in R
- Conducted avian point counts in Eldorado National Forest

Web Developer — Jun 2023 - Aug 2023
California Academy of Sciences — *San Francisco, CA*

- Created a website to teach people about food webs for a wildlife metrics project
- Developed the website to secure a grant extension

Sales Associate — Mar 2019 - Aug 2023
Wild Birds Unlimited — *Novato, CA*

- Received shipments from suppliers
- Assisted customers in selecting bird feeders for their backyard

Projects

eBird Christmas Bird Count Compiler | React, Electron — December 2022 - Present

- Developed a full-stack electron application to help Christmas bird count organizers compile the data collected from eBird
- Utilized puppeteer and leaflet maps to get and display the eBird data

WashU Course Watch | React, Node, Firebase, Cloud Run — Oct 2023

- Developed a website to alert WashU students when courses without waitlists have open seats
- Winner of the emerging category at Hack WashU 2023
- Responsible for the backend (Firebase and Cloud Run) and part of the frontend (integrating APIs)

Free Food at Case Western Reserve University | NextJS, MongoDB — Feb 2024

- Developed a website to aggregate all of the events at Case Western that serve free food
- Winner of Hack CWRU 2024
- Fine-tuned a GPT model to correctly identify and rate events that serve food

Google Student Developer Club | NextJS, MongoDB — Jan 2024 - Present

- Developed a scheduling website for the Down Syndrome Association of Greater St. Louis
- Worked in a team of 8 people to design the full stack application

Physical Desmos Calculator | Onshape, Raspberry Pi, Linux, PCB Design — Jan 2024 - Present

- Created a calculator in the form factor of a TI-84 that runs Desmos (a web-based graphing calculator)
- Used Onshape to model the design, 3D printed the calculator, programmed a Raspberry Pi, and designed a PCB for the buttons

Technical Skills

Languages: Java, Python, JavaScript, HTML/CSS, R
Other Software/Tools: Git, Google Firebase, MongoDB, Linux, MacOS, Windows
Data Analysis: Bayesian hierarchical modeling, Markov Chain Monte Carlo, linear models