Trevor Zou

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SKILLS

Languages - JavaScript, HTML, CSS, Python, Mongo, JSON, Matlab, C | **Database** - PostgreSQL, MongoDB | **Libraries and Frameworks** - Express.js, Django, Jquery, Bootstrap | **Other** - RESTful Routing, JSON API, GitHub, Latex

PROJECTS

Spotlight | React, MongoDB/Mongoose, AWS, Express
- Worked on a team of 3 to make social media app mockup allowing users to "Spotlight" personal stories and events with comment, feed, and like functionality
- Managed collaborative Git workflow with a three-person team using SCRUM framework
- Built API with multiple CRUD operations, image storage using AWS S3 Buckets, and Chakra UI for front-end styling

Notes App | React, PostgreSQL, Django
- Created minimalist Google Docs-style note-taking app
- Backend with folder, note, and user models, one-to-many relationships, and token auth
- Minimal UI, styled using Chakra UI component library

Grad | Javascript, Express, MongoDB/Mongoose, Liquid
- Designed a tool for keeping track of graduation requirements (general and major-specific) for my college, with an up-to-date maintainable course catalog
- 2 complete create, read, update, delete (CRUD) operations, 3 models, authentication, and seeded class/major data
- Created application with utility-first approach with simple tables for requirements, calendar for schedule, and grid for catalog using Express views with Liquid templating and bootstrap

W||dle | Vanilla Javascript, HTML, CSS
- Wordle clone with multiplayer, variable word length, and timed modes
- Utilized API calls for input validation/word generation, including local storage for player scores
- Styled using FlexBox and Grid for clean UI, including Wordle-style animations

EPA Notebook | Python, Numpy, Pandas
- Led a team of students from Olin Public Interest Tech to develop a Python notebook exposing race-based data gaps in the EPA's Enforcement and Compliance History Online database
- Co-Designed with environmental policy non-profit EDGI, pitched final work to ProPublica and New York Times journalists.
- Used API calls for database querying, Pandas for data processing
- Packaged into accessible open source Google Colab with easy-to-digest format/curated additional resources

EXPERIENCE

Volunteer, Data Science Team, Reach4Help | Canada   Feb 2021 - Dec 2021
- Data Science and Development for nonprofit democratizing access to volunteer help worldwide through accessible online mutual-aid programs
- Parsed User-Submitted Data for input into Oxygen/Vaccine resource map, clean and synced data across web-storage platforms
- Web-scraped and analyzed Twitter social media trends using NLP to create real-time location-specific crisis and resource demand maps

Olin Public Interest Tech Fellowship, Remote | Nashville, TN   May 2021 - August 2021
- Fellowship allows students to work at public interest organizations and advance Olin's mission to do work for the good of the world.
- Worked with an organization developing solutions to effectively deliver medical supplies over long distances to those with accessibility issues.
- Configured custom prototype of VTOL drone design for flight simulation/autonomous flight in a flight simulator using 3dsMax, RealFlight, and ArduPilot

EDUCATION

GENERAL ASSEMBLY | REMOTE

Software Engineering Immersive   June 2022 - September 2022
Full-stack software engineering immersive student in an intensive, 24-week, 450+ hour program focused on product development

fundamentals, object-oriented programming, MVC frameworks, data modeling, and team collaboration strategies. Developed a portfolio of individual and group projects.

Olin College | Needham, MA
Bachelor of Science in Engineering with Computing   **August 2020 - May 2024**
Cumulative GPA: 3.89/4.00
- Recipient of 50% tuition merit scholarship