Zachary Levaton

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Education

Oregon State University | Bachelor of Science in Computer Science   Anticipated June 2023
- GPA: 4.0/4.0
- Key Courses: Web Development, Databases, Data Structures, Algorithms

University of California, Santa Barbara | Bachelor of Science in Mechanical Engineering   June 2017

Projects

Water My Plants Doing? - [Github](#) - [Live Site](#)
- A project to help make sure my plants are always appropriately watered
- Single page **Flask** web-app that utilizes a **Raspberry Pi** to monitor the soil moisture levels of two of my house plants
- **Cron** executes scheduled sensor readings and writes the data to an **Amazon RDS** database using **MySQL** commands

CMLZ Tutoring - [Github](#) - [Live Site](#)
- Tutoring site developed remotely with a partner, using **Git** for source-control
- Built on the **Flask** framework, with **Jinja2** and **Bootstrap** for frontend aesthetic, and **Javascript** for interaction effects
- **Postgres** is used to implement a database schema that involves many-to-many and one-to-many relationships

Guess That Tweet! - [Github](#) - [Live Site](#)
- Single page web-app where users are presented with a Tweet, and must guess which Twitter user it belongs to
- Makes asynchronous calls with Twitter's **API** to retrieve recent Tweets and user information
- Utilizes **Bootstrap** and **Vue.js** for front end aesthetic and interactions, and **Express** and **Node.js** for all backend tasks

Ultimate Tic-Tac-Toe - [Github](#)
- **Python** implementation of the popular Tic-Tac-Toe variant, played on the **command line**
- Clean and quick game output, with a command line tutorial for those who don't know how to play

Work Experience

Engineer   April 2018 - April 2021
[Gas Transmission Systems, Inc.](#)
- Contributed to the validation of over 500 miles of natural gas pipeline & 50 stations for multiple utility providers
- Established an asset validation foundational processes for utility providers, leading to >$1MM in contract revenue
- Improved and implemented new hire onboarding training, greatly increasing the efficiency of new hire ramp up

Undergraduate Learning Assistant - Discrete Mathematics   March 2020 - June 2020
[Oregon State University](#)
- Successfully balanced student work-load with teaching work-load
- Developed a deeper understanding of discrete mathematics topics and their application to computer science
- Encouraged student participation and development through online office hours

Skills

Programming Languages: Python, Javascript, Java   **Frameworks:** Express, Vue.js, Flask

Databases: MySQL, PostgreSQL   **Tools:** Git, Github, Node.js