

Michael Li

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Education

University of California, Davis

Bachelors of Science, Chemical Engineering

Work Experience

ACEA - Advance Continuing Education Association

Boston, Massachusetts (Remote)

Software Engineering Intern

May 2020 - Present

- Developed and tested new features for project releases; presented my project updates to the software team in an Agile lifecycle
- Implemented new design changes to reflect the users' and organizations' permissions which encouraged free members to join the premium service
- Built a new license report dashboard allowing organization admins to see their users' information and status including current continuing education requirements, credits and renewal dates in a centralized location
- Tested the company's Android app for release; presented issues and improvements to the software team

Zymergen, Inc. – Fermentation

Emeryville, CA

Research Associate II

December 2017 – March 2019

- Led a team of Research Associates in achieving a fermentation success rate of 84% (with over 350 bioreactors ran from September 2018 to January 2019) with microbe strains delivered on critical timepoints for Zymergen's largest client, estimated to contribute ~25% of the revenue for 2019
- Collaborated with other departments; conducted various process development experiments to improve conditions for a higher yield and productivity
- Analyzed weekly fermentation run data using JMP to calculate KPIs used in strain promotions
- Created a comprehensive guide outlining the process, tasks, and common errors of the project used by other research associates to conduct daily operations
- Cross-trained new hires on various projects, laboratory techniques, and equipment through training sessions and department wide presentations

Software Project Experience

Bioreactor Simulator and Deviation Monitoring System

November 2019 – December 2019

- Built an automated bioreactor monitoring tool to assist fermentation associates by increasing their ability to oversee and catch deviations while running a large quantity of bioreactors
- Created a GUI application by leveraging the Python binding PyQt to simulate an aerobic fermentation process with real time graphical displays of every parameter
- Allowed the introduction of all possible mechanical deviations upon user input; illustrated the various effects each deviation has on the bioreactor as a system

IMDb Movie Browser with Data Analysis

October 2019

- Analyzed IMDb's dataset using Python's Pandas and NumPy library to create data visualizations and determine various trends regarding the development of the movie industry and consumer preferences
- Extended IMDb's Top 250 movies to populate a PostgreSQL database allowing users to browse and search for movies by specific attributes

What to Cook

September 2019

- Integrated Edamam's Recipe Search API into a Django-built website that allows users to find meals based on ingredients already in their pantry; deployed it using Heroku

Technologies

Python | Django | Spring | HTML | CSS | Bootstrap | Heroku | PostgreSQL | MySQL | Git | Linux