DYLAN WEBSTER

Berkeley, CA dylanwebster@protonmail.com 559.281.0371

EXPERIENCE

Zymergen, Inc. | Emeryville, CA

Zymergen applies data science and laboratory automation to improve microbes used in industrial fermentation

PRODUCT MANAGER | JUL 2017 – PRESENT

ASSOCIATE PRODUCT MANAGER | JUL 2016 – JUN 2017

- Product owner for internal Manufacturing Execution System (MES) that coordinates high throughput strain construction and screening in automated labs.
- From project ideation, worked across functions (*e.g.*, Manufacturing, Business Development) to define requirements to support scalable manufacturing processes with increasing product mix and throughput.
- Worked with software and hardware engineering teams to develop specifications from user stories, and coordinated sprints with engineering teams to implement.
- Facilitated adoption by defining phased implementation plan with manufacturing management.

RESEARCH ASSOCIATE III | JAN 2016 – JUL 2016
RESEARCH ASSOCIATE II | FEB 2015 – JAN 2016

- Wrote Python client library for REST API to internal Laboratory Information Management System (LIMS).
- Defined and automated data pipeline; managed quality control processes for high-throughput DNA and strain construction workflows.
- Worked with Automation team to develop genotyping workflow employing 384-well plates and liquid handling robotics, reducing operation time (~50%) and consumable cost (~67%).

E&J Gallo Winery | Modesto, CA

Gallo is the largest winery in the world, holding more than 25% of the American wine market

ADVANCED ENGINEER | OCT 2014 – JAN 2015
ASSOCIATE ENGINEER | MAY 2013 – SEPT 2014

- Managed scale-up of reactive distillation process to recover value from waste; valued at $150-300 MM.
- Worked with Operations to troubleshoot scale-up of proprietary yeast strains, ensuring success of fermentations valued at $0.5 MM.
- Built nonlinear regression model to understand dynamics of stuck fermentations at 0.5 MM gal scale.
- Applied thermal enzyme deactivation kinetic model to improve operation of flash pasteurization systems.

EDUCATION

Cornell University | Ithaca, NY

MEng Biological Engineering, May 2013 (GPA: 4.2)
BS Biological Engineering, January 2013 (*cum laude*)

PROFESSIONAL DEVELOPMENT

Coursework in Decision Analysis (Stanford University Dept. of Management Science and Engineering)
Coursework in Data Science (Specialization by Johns Hopkins University at coursera.org)

SKILLS & KNOWLEDGE

Technical Skills

Modeling, Simulation, and Optimization
Relational Databases, *e.g.*, MySQL
Statistical Computing, *e.g.*, MATLAB, Python, R, VBA

Product and Project Management

Product Development
Requirements Definition
Resource Capacity Planning
User Engagement

PUBLICATION

Webster D. P. *et al*. (2014). An arsenic-specific biosensor with genetically engineered *Shewanella oneidensis* in a bioelectrochemical system. Biosens. Bioelectron. Vol. 62.

INTERESTS

I enjoy songwriting, philosophy of science, martial arts, baseball statistics, and learning from the passions of others.