ALEX MARTEN

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Portfolio: https://alex-d-marten.github.io/alex-marten-react-portfolio/

SUMMARY

Successful Automation Engineer with 4 years of experience in the Biotech industry, seeking to transfer to a full software role. Eager to apply skills learned in the UC Berkeley Coding Bootcamp with an emphasis in Full Stack Web Development.

TECHNICAL SKILLS

Languages: HTML5, CSS, JavaScript, Python, SQL, NoSQL, GraphQL, MongoDB, Mongoose
Libraries & Frameworks: jQuery, Node.js, Express.js, React.js, Sequelize
Concepts: APIs, REST, MVC, JSON
Tools & Platforms: Git, Heroku, Windows 7/10/11, Mac OS X, Github, Jira, VS Code, VS Pro
Soft Skills: Collaboration, Adaptability, Commitment, Trainability, Strong Communication

EXPERIENCE

Automation and Systems Integration Engineer | Seagen Inc   **09/23 – Present**

- Created an automated data uploader in Python that utilized APIs to upload measurement batches to the research data repository; consisting of a custom-built user interface to select files and a file parser resulting in significantly reduced time spent by the users to upload files and reducing user errors.
- Worked with scientists to create an automated method for partial reduction screens within the antibody drug conjugation department to efficiently test new antibodies and determine optimal reduction parameters required to reach the desired target.
- Integrated automated devices in the labs and on the currently existing equipment to enable workflows and reduce the manual work being performed by the scientists.

Automation Engineer II | GenScript USA Inc.   **11/22 – 08/23**

- Independently led optimization of gene fragment synthesis automated production line, acting as engineering point of contact and subject matter expert.
- Analyzed data from runs and increased gene fragment yield from 50% to over 95%.
- Managed communications with stakeholders, leadership, scientists, and team members, ensuring that the requirements for the project were met and accommodating process changes as needed.
- Reported progress in biweekly meetings with leadership, met deadlines ahead of schedule, and successfully brought a new product to launch.
- Developed python scripts to generate run input files based upon user input parameters.

Lab Automation Engineer II   **07/21 – 09/22**
Zymergen   Emeryville, CA

- Completed software projects to improve data collection around Automation instruments.
- Worked on a performant and reliable data parser in python for which records measurement data and uploads this data to LIMS.
- Created a Jira project to process Automation Project Requests for new hardware or software tools
- Trained various lab users on the operation of lab equipment, including how to use the software and safely interact with the instruments.

Automation Mechatronics Engineer Rotation   **08/21 – 12/21**

Zymergen   Emeryville, CA
- Using TwinCAT 3 software, programmed and tested newly deployed Beckhoff PLCs on automated systems, ensuring all features operated correctly before deployment.
- Participated in 2-week sprints in Jira to complete projects in a timely manner and provide updates on current progress.

Lab Automation Engineer I   **07/20 – 07/21**
Zymergen   Emeryville, CA
- Mentored new hires and technicians using and troubleshooting Automation equipment.
- Coordinated and completed multiple projects simultaneously, pertaining to user requests, internal projects, and complex tickets.
- Improved currently deployed Automation processes informed by user feedback and personal experiences.

Associate Lab Automation Engineer   **08/19 – 07/20**
Zymergen   Emeryville, CA
- Provided support for Zymergen's Emeryville and Boston fleet of Automation equipment by implementing a root cause analysis approach to issues and performing routine maintenance.
- Maintained a "customer first" focus by responding to tickets regarding automation equipment and software, providing solutions in a timely manner.

PROJECTS

Envision Measurement Batch Parser & Uploader | Seagen Inc.
- A standalone application deployed to user and lab computers that would allow files to be selected and uploaded to the core research data repository with APIs.
- Code consisted of a parser that would go through the files, retrieve the necessary information, and continue until the last of the needed information was reached using identifiers in the files to determine that endpoint.
- Worked with the end users to test out the project, gather feedback for any changes, and ensure that the data integrity remained in place once uploaded.
- Python, Selenium, tkinter

0nlyPets | https://github.com/alex-d-marten/0nlypets | https://alex-d-marten-0nlypets.herokuapp.com
- A social media application that allows users to create an account, share pictures of their pets, and network with other pet lovers by adding comments to posts. All user information and post information are created and stored in a database where it can be edited or deleted.
- Primary lead in the group responsible for organizing tasks for the team and ensuring work was completed in a timely manner. Implemented a cloud storage for user picture uploads to render pictures onto user's posts.
- HTML5, JavaScript, CSS3, Bootstrap, MongoDB, Mongoose, Heroku, React.js, Node.js, Express.js, GraphQL, Apollo

EDUCATION

Coding Boot Camp Certificate   **04/2022**
UC Berkeley Extension   Berkeley, CA
A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, JavaScript, jQuery, Bootstrap, Node.js, MySQL, MongoDB, Express, Handelbars.js, and ReactJS.

B.S Chemical Engineering   **06/2019**
University of California, Davis   Davis, CA