Nick Monteleone

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TECHNICAL SKILLS

Languages - JavaScript, TypeScript, Python, SQL, PostgreSQL, HTML, CSS, VBA
Libraries - React, React Testing Library, Angular, Angular Testing Library, Bootstrap, Pandas, Selenium
Frameworks - Node, Express, Jest, Vitest, Django, Flask, SQLAlchemy, Jinja, pytest, unittest
Tools - Git, GitHub, GitLab, VS Code, Insomnia/Postman, REST API, pgAdmin, AWS S3, Linux (Ubuntu), WSL

SOFTWARE ENGINEER EXPERIENCE

Software Engineer Intern   Nov 2023 – Mar 2024
Rithm School   San Francisco, CA
- Utilized Django & Python to develop backend, frontend, and admin applications for 80,000+ line codebase.
- Implemented tagging model to interface with five other app models. Evaluated three possible approaches for relating tags with other models before moving forward with the best option.
- Performed novel integration for system to interface with external API for sending reminders to users.
- Created and submitted four issue-closing pull requests with 100% test coverage.
- Assessed tasks using agile methodology to assign story points and evaluate project velocity.
- Delivered technical presentation for testing methodology, including standardization of test data generation.

BIOTECH ENGINEERING EXPERIENCE

Senior Automation Engineer   Apr 2022 – Present
JSat Automation Inc.   Oakland, CA
- Developed Python scripts for electronic form editing, documentation, and testing to automate manual tasks and successfully deploy a client site workflow application, utilizing docker containers for hosting.
- Presented to the company on the tool creation process and added the tool as a platform Python package.
- Provided TypeScript consulting for a client to implement their site's first HTML5 control system displays.
- Led project to upgrade & virtualize a multi-server control system for a biotechnology firm, including validation testing delivered to client quality group for an system release within the scheduled time frame.

Automation Engineer II   Nov 2020 – Apr 2022
BioMarin Pharmaceutical Inc.   Novato, CA
- Installed and tested software applications for a new site distributed control system, including a simulation environment as a novel solution for engineer and operator training.
- Developed documentation, drawings, and testing for qualification of a control system upgrade project, ensuring system release within downtime window to meet production schedule constraints.
- Led project for reconfiguring controllers to adapt bioreactor system to meet updated requirements from lab users, completing project delivery within allotted downtime window.

Data Systems & Applications Engineer I/II   June 2018 – Oct 2020
BioMarin Pharmaceutical Inc.   Novato, CA
- Developed standardized Review-by-Exception batch reports through cross-functional collaboration with manufacturing and quality to align alarm strategy in automated recipes with risk assessments. Presented the solution at an industry conference and earned recognition as a top selection.
- Performed time-series database creations, virtual infrastructure upgrades, and report implementation under change control, including change owner role for several first-in-kind implementations to maintain data integrity for critical manufacturing systems.

- Created and executed acceptance testing for data contextualization and batch report templates for time-series data and analytics, including a daily temperature monitoring report to increase compliance and efficiency for facilities staff. Presented internally for cost savings and ROI for the critical monitoring reports.

Manufacturing Sciences & Technology Intern   May 2017 – Aug 2017

BioMarin Pharmaceutical Inc.   Novato, CA
- Developed and implemented a new process monitoring tool for manufacturing facilities by integrating VBA code into displays and organizing data points into hierarchies, increasing the efficiency and effectiveness of data visualization for users.

TECHNICAL PROJECTS

ShareB&B   Live Demo | GitHub
- Developed React frontend to create reusable app components, interfacing with a Flask backend for API endpoints writing to postgreSQL database.
- Utilized AWS S3 for image uploads to allow for secure cloud storage of files.
- Planned a phased approach for adding features during a sprint. Presented app functionality to peers.

Jobly   Live Demo | GitHub
- Utilized Node JS on backend with React frontend to create full-stack JS app with 100% test coverage.
- Prioritized security of application data, utilizing jwt and session functionality to maintain quality UX.

Warbler   Live Demo | GitHub
- Created a multi-page app using Flask to meet requirements for user posts, likes, and following features..
- Ensured data integrity by utilizing validation at form and database level to check user inputs.

EDUCATION

Rithm School   Nov 2023 – Mar 2024

Full Stack Web Development Program   San Francisco, CA

University of Colorado Boulder   Aug 2014 – May 2018

B.S.E. Chemical & Biological Engineering   Boulder, CO

Minor in Biomedical Engineering