Melanie Prettyman

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Professional Summary

SUMMARY

Aspiring for a software engineer role to apply my robust technical foundation in computer science and analytical acumen, coupled with a practical understanding of software engineering. Eager to contribute to the creation of efficient and dependable software solutions while expanding my expertise in the field.

Professional Experience

Dyno Nobel

February 2024 - Current Salt Lake City, Utah

Front End Engineer Intern

- Developed UI components and implemented them following well-known React.js workflows.
- Coordinate with a team to work on different layers of the infrastructure in all phases of the software development lifecycle in a fast-paced agile setup
- Translate designs and wireframes into high quality code, while writing reusable, testable, and efficient code.
- Optimize components for high performance across a vast array of web-capable devices and browsers
- Work collaboratively with UI/UX Designers, Product Owners and Architects to understand end user requirements to provide technical solutions and for the implementation of new software features.
- Participate in feature grooming, provide inputs in design and perform story point estimation

Biofire Diagnostics

February 2022 - August 2023

Salt Lake City, Utah

Lab Technologist II

- Led DNA, RNA, and live-organism process control production.
- Acted as a subject matter expert in Template Control processes and data analysis.
- Presented findings through slideshows, emphasizing lessons learned and process improvements.
- Managed product inventory and ensured timely departmental deliveries.
- Conducted customer engagement to identify data-driven business needs and provide data lake solutions.
- Conducted experiments, analyzed data, and collaborated with team members for project completion.
- Performed experiments, including test method validation and process validation, to support improvement projects.
- Quantified DNA and RNA samples using qPCR, ddPCR, and RT-PCR.

Leung Lab for Infectious Disease

December 2017 - August 2019

Laboratory Aid

Salt Lake City, Utah

- Conducted research on different approaches to SBA, focusing on measuring lysis-released adenylate kinase as a proxy for bacterial cell lysis.
- Collaborated in the testing and validation of the luminescence-based SBA method, which directly measures continuous titer values, reducing assay time, cost, and variability.
- Played a critical role in preparing bacterial cultures and serum samples for testing, following strict laboratory protocols.
- Assisted in the analysis and interpretation of experimental data, including the comparison of traditional OD-based vibriocidal with the newly developed luminescence-based method, demonstrating increased resolution and accuracy.

Technical Skills

- **Programming Languages:** C++, Java, JavaScript, React
- Test Automation: Catch2, JEST
- Tools & Frameworks: Git, Jenkins, JIRA, Agile workflow

Education

University of Utah
Bachelor of Science in BioChemistry
University of Utah
Master of Engineer in Software Development

December 2021 Salt Lake City, Utah December 2024 Salt Lake City, Utah