Melanie Prettyman

(240)-587-8545 | melanie.prettyman98@gmail.com | www.linkedin.com/in/melanie-prettyman-875189289

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
Front End Engineer Intern Salt Lake City, Utah

- Develop UI components and implement 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
Lab Technologist II Salt Lake City, Utah

- 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 — December 2021
Bachelor of Science in BioChemistry — Salt Lake City, Utah
University of Utah — December 2024
Master of Engineer in Software Development — Salt Lake City, Utah