Eric Davidson

573-579-2655 | edavidson1410@gmail.com | linkedin.com/in/edavidson1410 | github.com/edavidson1410

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, SQL
Frameworks: React, Node.js, SpringBoot

EXPERIENCE

IT Specialist / Python Developer — December 2023 – Present
Bayer — St. Louis, MO
* Developed a Python app with GUI to automate report generation for colony counting and transfer of collected data into the generated report.
* Led scripting with Python to enable laboratory automation of liquid handling using OpenTrons equipment to support business goals and directions.
* Responsible for ensuring effective and continuous operations of centralized chromatography data systems including on-instrument troubleshooting, device configuration, and user management of the enterprise application.
* Enabling the continuous improvement of the R&D digital space by assisting in local connectivity and DNS configuration of devices in the laboratory network space.

Analytical Chemist — June 2023 – December 2023
Bayer — St. Louis, MO
* Performed routine analysis (HPLC RI/UV, Agilent/Shimadzu) of 8 analytes using Chromeleon support of reactor programs.
* Initiated analysis, led sample preparation, and investigated change in composition between drycake and wetcake Glyphosate for shipping overseas in support of potential sales strategy.
* Launched and identified issues with the first St. Louis Crop Protection instance of LabVantage for future use throughout the company.
* Provided support through HPLC, Karl Fischer, and GC analysis for Furnace Tube R&D to produce ketene.

Associate Chemist — April 2019-March 2023
Nestle Purina — St. Louis, MO
* Conducted HPLC analysis on ingredients, pet food, vitamin premix, etc. using a variety of HPLC instrumentation.
* Maintained instrumentation including Shimadzu HPLC, LECO Trumac N, NIR Tango Spectrometer, and various others.
* Investigated existing SOPs to improve methods to improve cost effectiveness and time efficiency.
* Administered Root Cause Analysis to determine corrective actions and improve workflow.
* Evaluated pricing of labor, consumables, and preventative maintenance to determine true cost of each assay in Proximate lab and re-define cost for customers.

PROJECTS

CouchCat | *React, Java, MySQL, Materials UI* — LaunchCode Capstone
* Designed to streamline the process of finding a movie to watch by allowing the user to search across streaming service catalogues, filtering results by categories of genre, director, and cast.
* Led front-end development using React including use of external API to filter movie choices, authorization/whitelisting for user profile, and auto-complete search bar.
* Worked with a multi-faceted team using Git and Git Projects to collaborate on a full cycle of development.

EDUCATION

LaunchCode — St. Louis, MO
Certificate in Web Development — *May 2023-January 2024*

Missouri State University — Springfield, MO
Bachelor's of Science in Biology — *January 2013-May 2016*