

JAVAN WHITNEY-WARNER

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Software Engineer | Data Engineer | Process Controls & Automation | Chemical Engineer

WORK EXPERIENCE

Software Engineer

Numat Technologies, Chicago, IL — Mar 2023-Present

Django Tracking: Developed company Laboratory Information Management System (LIMS) and Manufacturing Execution System (MES) within a Django web framework in a production environment.

- Communicated with Operators and End-users of data in the R&D and Engineering groups to determine the appropriate data structures to create to allow for short-term display of analytical data in the LIMS/MES and longer-term dashboarding and statistical analysis in tools such as Spotfire
- Created and automated connections between local data sources (excel spreadsheets), production databases, and tools such as Snowflake, Spotfire, and JMP using a combination of Python, SQL, and cronjobs as Docker services
- Evaluated how process equipment and analytical instruments communicate and/or report data, writing Python interfaces with serial equipment as necessary (public repositories of the libraries published to GitHub for IKA and Copley devices), and parsing reports to assign data to object models

Senior Process Engineer

Numat Technologies, Skokie, IL — Oct 2022-Feb 2023

Process Engineer

Numat Technologies, Skokie, IL — Oct 2020-Oct 2022

- Designed and built multiple automated analytical manifolds based on ASTM methods, complete with programmable logic controller (PLC), web-based UI for communicating with the PLC, control routines, and scripts to parse and sync output data to an internal production database using a combination of Ladder logic, Python, JavaScript, and SVG
- Migrated project data from local files (i.e., individual excel sheets) to centralized spreadsheets and databases (Google Sheets, LIMS) and demonstrated the utility of project-specific Tableau dashboards to enable data-driven decision making

EDUCATION

- **B.S., Chemical Engineering, Cum Laude**, Northwestern University, Evanston, IL 2016-2020
 - Minor, Music Technology, Bienen School of Music
 - Certificate, Sustainability & Energy, Institute for Sustainability and Energy at Northwestern

TECHNOLOGIES & LANGUAGES

- **Languages:** Python, SQL, JavaScript, Ladder logic, HTML, MATLAB
- **Technologies:** Django, Git, Snowflake, Tableau, Spotfire, Postgres DB, Docker
- **Other:** Programmable Logic Controllers (PLC), Test-Driven Development (TDD)

OTHER

- **Professional Memberships:** Society of Women Engineers (SWE), Engineers for a Sustainable World (ESW), ChiPy (Chicago Python User Group)
- **Interests:** Audio Engineering, Sustainability, Music & Theater