JAVAN WHITNEY-WARNER

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

WORK EXPERIENCE

Data/Software Engineer III   Numat Technologies, Chicago, IL — Apr 2025-Present

- Split heavy computational code from the monolithic Laboratory Information Management System (LIMS) codebase into its own docker service using a custom API to send and receive calculation requests and responses to improve development workflow between teams.

Software Engineer   Numat Technologies, Chicago, IL — Mar 2023-Mar 2025

- Expanded and refactored database structure and frontend display of data models within company LIMS and Manufacturing Execution System (MES) running in a Django web framework, migrating legacy and/or unstructured data into new environments
- 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 data to an internal production database using a combination of Ladder logic, Python, JavaScript output, 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

TECHNOLOGIES & LANGUAGES

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

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

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