

Julie Hang

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Skills

Languages: Python, Shell, Bash, Java, C++, SQL

Frameworks and Libraries: Scikit-learn, Pandas, Pytorch, JUnit

Tools & Platform: Git, SQL Developer, Linux, Unix, Jenkins (CI/CD), UrbanCode Deploy

Development: Jira, Agile, Technical Documentation, ServiceNow

Experience

Wells Fargo

July 2022 - Present

Software Engineer

- Own an end-to-end processing workflow by developing Python and Shell automation with dynamic triggers and conditional logic, ensuring reliable production delivery
- Design and maintain a secure SFTP (Secure File Transfer Protocol) pipeline that automatically moves raw datasets to a designated folder, triggering downstream data-processing jobs
- Collaborate with cross-functional teams (infrastructure, data, and business partners) to define requirements, align timelines, and ensure reliable delivery
- Manage data-delivery pipelines that move SFTP-received files into structured directories, enabling business partners to preview, validate, and query transformed datasets
- Develop backend data-processing tools using Python, SQL, and Shell to transform, validate, and deliver high-volume transactional datasets while eliminating **6+ hours/week** of manual intervention and improving data reliability by **25%**
- Design and optimize **50+** SQL tables, indexed views, and schemas to support scalable data pipelines and improve query performance and analytics efficiency by **15%**
- Build and enhance internal automation tools for SQL validation, SFTP monitoring, and Informatica workflows, reducing manual intervention and improving operational efficiency
- Develop dependency-aware job schedules and scripts with retries and conditional logic to prevent duplicate processing, reduce failures, and increase pipeline uptime by **80%**
- Implement SLA (service level agreement) alerting scripts and job-health monitors with failure detection, runtime thresholds, and escalation logic to maintain system reliability
- Create unit and integration tests for Python scripts, SQL transformations, and workflows, ensuring edge case coverage, data correctness, and regression-free releases
- Automate deployments using Jenkins and UrbanCode Deploy, applying **CI/CD** practices to reduce release efforts by **30%** while ensuring smooth integration of data pipelines
- Coordinate with QA and database engineering teams to update schemas, enforce data quality rules, and deploy production releases with minimal downtime

San Diego Supercomputer Center

June 2021 - August 2021

Software Engineer Intern

- Develop frontend and backend features for a full-stack fitness networking app built with React, Django, and MySQL, boosting beta engagement by **30%**

Education

University of California, San Diego

September 2022

B.S. Mathematics - Computer Science

Key Coursework: Data Structures, Algorithms, Supervised Machine Learning, Deep Learning for NLP