Timothy J. Schiffer

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(856) 366-5736   github.com/tjschiffer   Sleepy Hollow, NY 10591

Professional Experience

Regeneron Pharmaceuticals, Process Development Engineer - January 2013 to Present

- Project Lead of the "Paperless Lab Initiative" for the creation of an electronic and searchable record of all lab data and activity
  - Conceived, developed, and launched "Sampling Sheet" web application for data entry and the display of sample analysis results as a replacement for paper records; achieved 100% user compliance due to intuitive, spreadsheet-like UI; reduced data entry time by over 90%
  - Selected and standardized the use of tablets for in-lab data entry and visualization
- Charter member of "Central Data Management Team", a cross functional team dedicated to enabling data capture, retrieval and analysis, and improving data infrastructure
  - Work as a team to enforce best-practice for data integrity and security consistent with company best-practices, and to identify optimal system for data storage and distribution
  - Principal contributor to internal Wiki application, focusing on How-To's and User Guides for custom web applications
- Laboratory Information Management System (LIMS) Administrator
  - Defined process workflows for adaptation into scalable database architecture
  - Reduced data-mining by 95% and enabled application integration by developing a middleware web application in ASP .NET translating Oracle SQL Database queries into XML or HTML tables
- Representative within IT team responsible for department relocation and expansion
  - Designed network architecture for large lab space with over 90 devices; conceived scalable and infinitely flexible lab space with "agnostic" data ports
  - Defined virtual LAN structure to create six private networks with an additional switch capable of replicating all private networks in case of failure
- Creator of and project coordinator for virtualization of in-lab data collection nodes
  - Worked with Data Center team to design VMWare vSphere Fault Tolerant cluster with a focus on redundancy and scalability
  - Authored test protocols for all data collection devices
- Lead of "Automation Team"
  - Current project consists of re-writing "Sampling Sheet" web application to implement user-defined views, inputs and comparisons; planned implementation of Python/Django framework with client-side UI rendering
  - Future efforts will focus on department-wide implementation of existing applications designed and developed as part of the "Paperless Lab Initiative"
- Responsible for Microsoft SQL Database for the storage of sample analysis results and associated metadata (e.g., QC and calibration results, configuration changes)
  - Developed Ruby script to parse flat-file data sources for integration with LIMS and SQL Database; subsequently replaced with script for translating XML data into SQL Database and flat-file output

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Regeneron Pharmaceuticals, Process Development Associate - June 2010 to January 2013

- Administrator for OSIsoft PI data collection system, supporting data historization for eighty bioreactors and nine sampling instruments
  - Developed "PI Site" website to display real-time information from reactors, allowing users to observe critical parameters remotely with intuitive visual cues
  - Supported all associated network machines and hardware for lab data collection
  - Developed an Excel Notebook capable of automatically collecting and organizing offline sample analysis information, and arranging and graphing it to facilitate the comparison of experiment results
  - Developed a unique remote volume-addition system and associated scheduler

Education

Rutgers, The State University of New Jersey, School of Engineering

Currently enrolled in part-time Masters Program, Masters of Engineering in Pharmaceutical Engineering and Science - Expected Graduation May 2017 (18 of 30 required credits completed)

     Cumulative GPA: 4.0

Bachelor of Science in Biochemical Engineering with a Minor in Biology, Honors Program Class of 2010

     Cumulative GPA: 3.52   Major GPA: 3.69

Skills

- HTML, CSS, ASP .NET, SQL, JavaScript, jQuery, Ruby, Git, Python/Django proficient
- Microsoft IIS WebServer, Adobe PhotoShop
- PC Hardware and Network Troubleshooting; IP/TCP Troubleshooting

Hobbies

Building computers, kickball, microbrews, driving cross-country