

BRIAN BOLT

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Synopsis

Informatics professional with 4 years of experience in pharmaceutical informatics. Strong experience on effectively scoping, planning for and delivering on customer requests. Focus on assessing customer needs to provide proactive service and support in order to develop new, robust and efficient tools as well as to take full advantage of existing and workflows.

Computer/Informatic Skills

Technical

- Mac OS X, Linux, Windows, System Administration
- R language and environment for statistical computing and graphics
- JAVA, PHP, JavaScript
- SQL, Oracle, PostgreSQL and MySQL
- LabSynch, Spotfire
- Amazon's EC2 and S3 cloud services
- Seurat for SAR collaboration
- Molecular Modeling: Sybyl, Dock, Pymol, Chimera
- Molecular Visualization
- Molecular Mechanics
- Geometry minimization and transition state localization docking

Laboratory Skills

- Electrophoresis; acrylamide and agarose gel preparation
- Restriction endonuclease digest; cloning of restriction fragments; mutation
- Immunoblotting
- Gel filtration, Ion exchange and Thin Layer Chromatography
- SDS-PAGE; PCR
- Characterization using IR and NMR

Organic Techniques

- Protein isolation, extraction
- Biochemical Assays
- Synthesis
- Drying organic solutions
- Filtration
- Purification
- Crystallization and X-ray Crystallography

Employment History

Present Position

John McNeil & Company, Inc., La Jolla, CA (2010-Present)
Support Scientist

Overview: Work with scientists, management and teammates to program and integrate sound, robust and efficient solutions for scientific application that best suite our customer's distinct needs.

Personal Role: Gather requirements from users and management, program applications, and new features, work with vendors, train scientists, gather feedback, perform and arrange maintenance.

- Deployed several instances of LabSynch to customers, provided maintenance, backups, custom plug-ins, general support and custom configurations.
- Helped write and deploy a dose response curve fitting algorithm using R, that included automatic failing, curve classification and fit strategies (parameter fixing)
- Wrote code to Extract, Transform and Load data from a vendor database to a custom designed table in a customer database for use with a second vendor's software. This project included spec gathering from two different vendors, as well as specification for complex transformation rules from the customer.

Previous Positions

Kalypsys, Inc., San Diego, CA (2007-2010)

Informatics Principal Scientist

Overview: Worked as a team member with fellow scientists, programmers and management to create sound, robust and efficient solutions for scientific application.

Personal Goal: Gathered requirements from users and management, worked with vendors, programmed applications and features, trained scientists, gathered feedback, performed and arranged maintenance. Point contact between scientists and programmers.

- Automated informatics software testing and monitoring processes by using Redstone's Eggplant scripting language, which reduced the testing procedures from a three person, one week process to a three hour automated process.
- Deployed a commercial Structure Activity Relationship query and chemical display tool.
- Gathered and negotiated user requirements, worked with the vendor and in-house programmers to integrate the software with our in-house system and database, performed primary end user training, provided documentation and post training support.
- Setup and maintained advanced queries. This replaced and enhanced the workflow for reporting and sharing SAR driving assay data, companywide.
- Deployed a commercial dose response curve fitting and curation tool that replaced and enhanced the workflow for curve fitting and significantly improved the integrity of the database.
- Wrote and deployed an automated screening summary tool.
- Project allowed scientists to get a quick and thorough summary of a screening campaign for meetings and comparisons.
- Helped write and deploy a curve fitting algorithm and user interface using R and Excel. This project saved the company over 100K in licensing fees.

Honors/Volunteer Work

- Volunteer Best Day Foundation 2010
- Dean's Honors List 2002-2004
- Camp Ronald McDonald Walk For Life 2005/2006/2007
- Volunteer Chivas USA Soccer Event for Charity 2005
- Youth Soccer Referee 1997-2000
- YMCA Volunteer 1998-1999

Education

University of California, Santa Barbara, CA

Bachelor of Science, Biochemistry

Relevant Course Work

Drug Design 1 & 2: Professor Kalju Kahn (kalju@chem.ucsb.edu)

To teach principles that governs the process of modern drug discovery and development. Students in the course follow a path similar to that taken by real-life drug developers by learning important elements of the drug design process in a logical order.

This course is an overview of the process whereby one identifies and optimizes drugs against a validated biological target (e.g., a protein like HIV protease). The course requires that you have a solid understanding of organic chemistry, particularly physical organic chemistry.