

205 Chapman Ave,
South San Francisco, CA 94080

STEPHEN WHELAN

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EMPLOYMENT

Data & Software Engineer, Rotation

DEC 2019 – Present

Technical Dev Research Associate

Genentech, Inc.

FEB 2018 - DEC 2019

Scientist II (Contractor)

DEC 2016 – FEB 2018

- Developed proof of concept random forest classifier for particle detection in R and received 200k in funding for development in European offices (Roche)
- Performed data wrangling of historical data using Python (NumPy) in Jupyter notebook saving users hundred of hours of data manipulation efforts
- Developed google Apps Script to automate emails for laboratory tasks reducing safety risks and compliance by 50% year-over-year
- Product owner for “Clinical In Use Administration Question Database” submitting bug reports and feature addition requests to remote development team improving department adoption and use
- Refactored R shiny Historical Data Viewer dashboard to include database integration with SQL queries
- Performed User Experience, gathered system requirements, estimated timelines and performed User Acceptance Testing for new Benchling software. Met with vendors to negotiate and discuss feature addition and service level agreements
- Built Static HTML website to host safety guidelines for department reducing questions to subject matter experts by approximately 50% and achieved increase in compliance
- Wrote dashboard application’s REST APIs, Express Server and User Interface with Javascript (React) and REST APIs for molecular data visualization
- Migrated monolithic web application to microservices architecture hosted on Google Cloud Platform using strangle pattern
- Performed or analyzed data from samples with a variety of biochemical and biophysical assays including HPLC, ELSD, icIEF, sub-visible particle counting, osmolality, CE-SDS
- Contributed to three IND filings with multiple health authorities across the world interfacing with quality, regulatory affairs and other technical departments, becoming the formulation lead on one.
- Improved business process for pharmacy manual writing by generating template and interfacing with Clinical Sciences and Clinical Operations reducing questions from clinical sites and clarifying roles/responsibilities

Technology Used: SQL, Python, HTML, CSS, JS (React, Express, Sequelize), Google Cloud Platform (Cloud SQL, App Engine, Kubernetes Engine), REST APIs, R, R Shiny, R Studio

QA Engineer

LGC, Biosearch Technologies, Inc.

OCT 2015 – JUL 2016

- Performed IQ/OQ/PQ, equipment maintenance, calibration, and preventative maintenance on HPLC’s, Synthesizers, LCMS’s, Liquid Handlers, Karl Fischer and a variety of other equipment used for the manufacture of oligonucleotides.
- Assisted with upgrading of OS to Windows 10 using unattended image deployment
- Maintained validated and calibrated status of instruments that numbered in the thousands
- Participated in internal and external customer audits
- Performed computer system validation for database data migration and windows operating system upgrades

EDUCATION

- B.S., Biochemistry, Saint Mary’s College of California
- B.S., Software Development, exp. Jun 2020, Western Governor’s University
- M.S., Applied Business Analytics, American Public University
- M.B.A., American Public University

SKILLS\KNOWLEDGE

- **Programming Languages:** HTML; CSS; SQL; JavaScript; R; SQL; Python
- Linux; Windows; R Shiny; Github; Cloud Technologies (GCP); Agile; Scrum;
- Data Visualization, Metric Creation