Kevin Sayers

Denver, CO
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Bioinformatician focused on workflows and engineering challenges for computational researchers. Experience with containerization, cloud, and Kubernetes. Development experience in Python, Groovy, and Nextflow. Certified Scrum Master with experience in project management.

Willing to relocate: Anywhere
Authorized to work in the US for any employer

Work Experience

Workflow Developer

SIB Swiss Institute for Bioinformatics - Basel, Switzerland
November 2017 to Present

• Acted as a workflow subject matter expert for the Swiss Personalized Health Network
• Chaired a 5 person working group tasked with developing interoperable workflow infrastructure for the Swiss Personalized Health Network (SPHN).
• Organized a 35 person workshop focused on bioinformatics workflows and workflow managers including leading international experts in the domain.
• Explored ways to federate workflow execution of containerized workflows across multiple HPC environments.
• Coordinated the ELIXIR Switzerland node application and contributions to the "Compatible Cloud" implementation study for federated workflow execution.
• Coordinated collaborations with Swiss and international groups to further informatics services available to researchers.

Graduate Intern

Centre for Genomic Regulation, Comparative Bioinformatics Group - Barcelona, ES
March 2017 to August 2017

o Developing a Common Workflow Language to Nextflow converter in Groovy
o Built Docker containers to be utilized as part of Nextflow workflows
o Created additional pipelines for testing converter including common
NGS pipelines.
o Deployed pipelines to cloud and HPC environments

R&D Research Associate

Biodesix, Inc
December 2012 to August 2016

o Worked in an interdisciplinary role collaborating with software
engineers, scientists, and data analysts.
o Developed Python and C# programs to automate data handling tasks.
o Developed database tools for the tracking of instrument and experimental parameters.
Used Python's matplotlib and bokeh modules to develop data visualization tools.

o Assisted with processing and analysis of MALDI spectra. Including through the submission of jobs to an HPC cluster.
o Participated in MALDI-TOF MS experimental design.

Summer Intern
National Institutes of Health, National Cancer Institute - Frederick, MD
2007 to 2012

o Employed various protein chemistry techniques to analyze blood plasma.
o Investigated proteins involved in epithelial to mesenchymal transition.
o Used BLAST and MASCOT to identify proteins of interest.
o Worked with a variety of instruments including MALDI-TOF MS and HPLC.

Education

MSc in Bioinformatics
Universitat Autonoma de Barcelona
2017

B.S. in Biochemistry and Molecular Biology
University of Maryland Baltimore County (UMBC) - Baltimore, MD
2012

Skills

Python (5 years), RNA-seq (1 year), Groovy (Less than 1 year), Bioinformatics (4 years), Git (3 years), SQLite (2 years), AWS (2 years), Kubernetes (1 year), Containers (2 years), Scrum (1 year), HPC (2 years), Docker (2 years), JIRA (1 year), Nextflow (3 years)

Links

https://github.com/KevinSayers

https://twitter.com/KevinTSayers

Certifications/Licenses

Certified ScrumMaster (CSM)
September 2018 to September 2020