Daniel Jon Peterson

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Skills

General: Data analysis pipelines, Distributed systems, Statistics, Data visualization, Data ethics

Programming languages: bash, R, python, java, MATLAB, Mathematica

Other systems and tools: AWS (S3, EC2, Batch), Docker, github, Jupyter, Flask, Terraform

Experience

Data Engineering Fellow   **Insight Data Science**   **Sep 2019-Present**

• Developed a webservice to make it easy for people to get 3D prints of their brain from an MRI.

• Scaled-up and productionized a computationally intensive image processing pipeline, run on AWS Batch, deployed with Terraform, and a frontend made with Flask (python).

• Served public users, and conducted a sucessful stress-test of many concurrent simulated users.

Research Engineer   **University of Washington**   **Apr 2015-Present**

• Created and maintained a variety of data processing pipelines for medical images, and executed them on a high-performace computing cluster.

• Took a lead role in modernizing research group practices to use AWS, github, python and R.

• Worked directly with research subjects and clinical trial participants from challenging populations, such as patients with epilepsy, people with advanced dementia, and people currently in hospice care.

• Extracted biological meaning from diverse data sets using advanced statistics, graph theory, and machine learning techniques, resulting in multiple scientific publications (h-index=8).

Research Assistant   **The Kennedy Krieger Institute**   **Jan 2012-Apr 2015**

• Designed image processing workflows in bash and MATLAB that were used for years afterwards.

• Assisted in writing successful grants to both governmental and private funding sources.

Graduate Research Assistant   **Johns Hopkins University**   **Aug 2010-Jan 2012**

• Purified isotopically enriched proteins, and performed magnetic resonance experiments.

• Completed advanced coursework in quantum mechanics, and computational chemistry.

Education

BA in Chemistry   **Lewis & Clark College, Portland, OR**   **May 2006**