David P. vanMaanen

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EDUCATION

Carnegie Mellon University , Pittsburgh, PA

- M.S. in Neural Computation August 2013 – May 2015

Pennsylvania State University , State College, PA

- B.S. in Physics August 2005 – August 2009

EXPERIENCE

IT Specialist (Data Engineer) , New York Presbyterian Hospital Oct 2022 – present
Remote (New York, NY)

- Designed and implemented in python a DICOM pipeline to transfer data from clinical systems to Azure cloud storage for ML
- Designed and implemented in python a orchestration system to host multiple ML models and receive imaging (Echocardiograms)
- Used Kubernetes in Azure and other Azure tools to make these systems scalable
- Assisted data scientist and analysts with Python, Docker containers, Imaging knowledge, etc.
- Worked with leaders to choose our data platform for a large institution wide initiatives

Data Analyst III , Geisinger Health System Sep 2015 – Oct 2022
Danville, PA

- Design and implement data pipelines that process and make medical imaging data available to our scientists.
- Work with developers and data scientists to create automatically deployed systems (Gitlab CI).
- Act as an expert in Linux, python, and Docker/containers for our team.
- Coordinate between IT and our group to ensure we use the most appropriate technologies.
- Maintain systems specific to our group including Gitlab, DCM4CHEE, Matlab license server, and in-house services.
- Maintain compliance of systems in cooperation with various corporate bodies.

Graduate Research Assistant , University of Pittsburgh Aug 2013 – May 2015
Pittsburgh, PA

- Design and implement computational models of neural systems to understand mechanisms of cognitive abilities.
- Use Python, Matlab, and various programming packages to accomplish tasks.

Technical Research Assistant , McLean Hospital Oct 2010 – Jul 2013
Belmont, MA

- Built biologically realistic computational models of neural networks using various tools including C, C++, and MPI.
- Used Beowulf cluster running on Linux for parallel simulations.
- Performed analysis of simulated data and design figures displaying data.
- Produced and maintain documentation for various custom scripts.

Thesis Project , Penn State Department of Physics Sep 2008 – Aug 2009
State College, PA

- Built computational models of noise in neural networks using C, C++, and Octave.
- Designed accompanying figures to explain data.
- Fulfilled requirements for graduation from the honors college.

SKILLS

Computing - Advanced :

✦ Python (Pandas/Numpy stack) ✦ BASH ✦ Linux Containers (Docker) ✦ CI/CD system (Gitlab) ✦ git (Gitlab/Azure Devops) ✦ SQL (various servers) ✦ Linux Server Management ✦ Azure (storage, ML workspace, Kubernetes)

Computing - Basic :

✦ Ansible ✦ Tensorflow ✦ torque/PBS ✦ LaTeX ✦ Java ✦ MATLAB ✦ C ✦ C++ ✦ Databricks

Mathematics/Data Analysis :

✦ Dynamic Systems Modelling ✦ Displaying Data for Reports ✦ Various Statistical Techniques

[*vanMaanen CV Compiled on 2024-08-22.*]