Asher Mancinelli

Data Science / Software Engineering

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Employment Experience

High Performance Computing Intern | 8/18-Present
Pacific Northwest National Lab, Spokane, WA

- Reproduced results from Facebook's *Rosetta* paper on synthetic data for fully convolutional OCR network
- *PyTorch* and *ElasticSearch* contributor (see GitHub)
- Pilot user for new HPC systems (IBM Power9, NVIDIA DGX-2)
- Member of Machine Learning Reading Group

Research Computing Intern | 5/18-8/18
Pacific Northwest National Lab, Richland, WA

- Created recognition/classification pipeline and streamlined training process to help other SWE's integrate deep learning tech
- Created time-series Gaussian Process models to predict strain on power grid
- Created analysis web-app for cleaning/interpreting large computational chemistry and biology datasets

Data Science/Analyst Intern | 5/17-8/17
Micron Technologies, Manassas, VA

- Created time-series model to predict/prevent server downtimes, increasing production
- Created and implemented new algorithm to detect and flag patterns in wafer defects, decreasing loss on product

Education **BS Computer Science, Math minor**

Eastern Washington University | 1/19-present

- 1st place ACM programming competition winner

Whitworth University | 9/16-1/19

- Awarded John Carlson Scholarship twice for exceptional performance in the Math dept.
- Awarded Exceptional Freshman in Math dept.

Very skilled:

- **PyTorch**
- **TensorFlow**
- **Python, CPython extensions**
- **C++**
- **Shell Scripting**
- **Jupyter Notebooks**
- **GIT**

Skilled:

- **Statistical modelling**
- **SciKit-Learn**
- **SQL**
- **Parallel/Concurrent programming patterns**
- **CUDA C**

Organizations

- Member of technical editorial review board for Brett Slatkin's *Effective Python*
- Leader of several homeless outreach groups in downtown Spokane
- Member/contributor of open-source community on GitHub
- Presented on neural networks/TensorFLow at local developer meetup (fullstacktc.org/user/amancinelli)
- Member of Varsity Baseball team at Whitworth for two years
- Leader of two on-campus outreach groups
- AP Scholar with Distinction