

Max Hoffman

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INDUSTRY

FACTUAL INC | SOFTWARE ENGINEER

Feb 2019 - April 2020

- Write libraries and workflows for organizing and joining global place, shape and location datasets.
- Create a system for attributing product variability to place, shape and location data changes.
- Develop and AB test features/architectures for location data classification/forecasting.

CONTRARY CAPITAL | VENTURE PARTNER

Jan 2018 | 2 years

- Work with the grittiest student entrepreneurs around the world. I continue to screen math and science-heavy ventures.

HACK REACTOR | SOFTWARE ENGINEERING BOOTCAMP

May 2017 | 3 months

- Front and backend JS web-dev primer.

ACADEMIA

WASHU | MACHINE LEARNING ENGINEER

Swamidass Lab | May 2018 | 8 months

- Predict quantum chemical properties of small molecule drug targets with graph recurrent networks (manuscript submitted).

Wessel Lab | Aug 2017 | 4 months

- Re-implement dynamics-parsing algorithm (SINDY) to classify visual spike train patterns with more robust/interpretable features (manuscript submitted).

POMONA COLLEGE | RESEARCH ASSISTANT

Sazinsky Lab | 1.5 years

- Culture, purify and analyze a biofilm protein responsible for *S. aureus* colonization/infections.

Shtylla Lab | 1 year

- Model the mitotic spindle and motor mechanics of *C. elegans* asymmetric first division.

Fryer Lab | 1 year

- Apply evolutionary dynamics to chemical reactions.

SAMPLE PROJECTS

QUARANTONED | TERRAFORM

2020

- Used Terraform to automate a S3-hosted static site with Cloudfront, Lambda endpoints, RDS and SES. (www.quarantoned.com)

SMAKER | PYTHON

2019 | Factual Inc

- Helper library that makes it easier to write complicated Snakemake pipelines. ([link](#))

TFLON | PYTHON

2018 | Swamidass Lab

- TF runtime-manager with a unique organizational pattern that couples computational modules with respective featurization encoders. ([link](#))

EDUCATION

WASHU MEDICAL SCHOOL

2017-2018 | St. Louis, MO | MCAT: 39
On leave

POMONA COLLEGE

BA CHEMISTRY, MATHEMATICS

2012-2016 | Claremont, CA

Summa Cum Laude

Cum. GPA: 3.96

SKILLS

- Python, Scala, Java, C
- Spark, TF, PyTorch
- Snakemake, Airflow, Luigi
- Docker, Singularity
- Terraform for AWS
- Jenkins pipeline CI
- JS/React web-stack