# KYLE KOSIC

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github.com/kykosic

in linkedin.com/in/kylekosic

• Atlanta, GA

# **EDUCATION**

# M.S. in Computer Science Georgia Institute of Technology

iii Aug 2018 − Dec 2019

• Atlanta, GA

Specialization in Machine Learning

# B.S. in Physics and Mathematics University of Alabama in Huntsville

**Aug** 2011 – May 2015

Huntsville, AL

Dual Major, Physics and Applied Mathematics

### SELECTED SKILLS

#### **Python**

pandas NumPy TensorFlow PyTorch				
statsmodels PyMC3 scikit-learn spaCy nltk				
$\fbox{ Dask PySpark flask Tornado asyncio boto 3}$				
Matplotlib Plotly				

#### Rust

Actix	ctix-web Rusot	Tokio	Diesel	Serde
bindgen	wasm-bindgen	Yew		

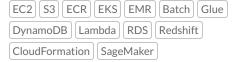
#### Scala

Apache Spark AWS SDK Cats Cats-effect

# **DevOps**

Docker	Docker Kubernetes Prometheus Helm					
Jenkins	Git Airflow I	Redis	fka	Serverless		
GKE KubeFlow						

#### **AWS**



#### Other

Linux Bash | Cython | MySQL | PostgreSQL BigQuery R

#### LINKS

View this resume online:

cv.kylekosic.dev

View the source code:

github.com/kykosic/resume-as-code

#### **ABOUT ME**

Full-stack data scientist and site reliability engineer with extensive background in mathematics. Self-motivated learner and problem solver with an affinity for automation, scalability, and distributed computing.

## **EXPERIENCE**

# Machine Learning Engineer, DevOps OnScale

Apr 2019 - Present

• Atlanta, GA

- Orchestrates physics solvers on multi-cloud HPCs via Kubernetes, enabling thousand-core simulations on-demand with end-to-end encryption.
- Builds machine learning models to optimize compute resource allocation for physics solvers, minimizing hardware costs.
- Responsible for maintaining CI/CD of microservice deployments, along with the pub/sub event-driven backend.
- Develops novel algorithms and data structures to enable highly-responsive, interactive 3D data visualizations in the web browser without using GPUs.
- Created a Python-based DSL for defining simulations, which enables compiling a standardized AST to multiple programming languages and physics solvers.

# **Quantitative Analyst**

#### Lucena Research

iii Dec 2018 − Apr 2019

• Atlanta, GA

- Lead research and development of machine learning applied to trading equity and commodity markets.
- Worked directly with data providers and portfolio managers to discover new investment strategies leveraging alternative data sets.

# Analytic Consultant, Data Science Wells Fargo

Sep 2018 - Dec 2018

Atlanta, GA

- Identified high-risk customers from electronic communications using deep learning NLP models.
- Designed Spark data pipelines for cleaning, redacting, and lexing terabytes of unstructured text data.

#### **Data Scientist**

#### IntegriChain

➡ Aug 2017 - Sep 2018

Philadelphia, PA

- Developed novel statistical models for providing visibility into pharmaceutical supply chains, driving millions in revenue per year.
- Designed NLP models to automate master data entity matching, saving thousands of analyst work hours.
- Built models for predicting patient-level adherence gaps in high-value specialty pharma, allowing for proactive resolutions.

# Senior Data Analyst

#### IntegriChain

Feb 2016 - Aug 2017

Philadelphia, PA

- Migrated on-prem data services to AWS, refactoring legacy ETL code into modern Python and Scala.
- Automated data quality monitoring with periodic reports, anomaly detection models, and interactive dashboards.