

# KYLE KOSIC

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📍 Atlanta, GA

## EDUCATION

### M.S. in Computer Science

#### Georgia Institute of Technology

📅 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  
Dask PySpark flask Tornado asyncio boto3  
Matplotlib Plotly

### Rust

Actix Actix-web Rusoto Tokio Diesel Serde  
bindgen wasm-bindgen Yew

### Scala

Apache Spark AWS SDK Cats Cats-effect

### DevOps

Docker Kubernetes Prometheus Helm  
Jenkins Git Airflow Redis Kafka Serverless  
GKE KubeFlow

### AWS

EC2 S3 ECR EKS EMR Batch Glue  
DynamoDB Lambda RDS Redshift  
CloudFormation SageMaker

### Other

Linux Bash Cython MySQL PostgreSQL  
BigQuery R

## LINKS

View this resume online:

🔗 cv.kylekosc.dev

View the source code:

🔗 github.com/kykosc/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

📅 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.