# KYLE KOSIC

✉ kylekosic@gmail.com    📞 +1 708-299-1185    🐙 github.com/kykosic    in linkedin.com/in/kylekosic    📍 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 | ndarray | PyO3 | Syn | Quote | 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.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**

📅 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.