

KYLE KOSIC

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🌐 github.com/kykosc

in linkedin.com/in/kylekosc

📍 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

Rust

Actix Actix-web Rusoto Tokio Diesel Serde
bindgen wasm-bindgen PyO3 Syn Quote

Python

pandas NumPy TensorFlow PyTorch
statsmodels PyMC3 scikit-learn spaCy nltk
Dask PySpark flask Tornado asyncio boto3
Matplotlib Plotly

Scala

Apache Spark AWS SDK Cats Cats-effect

DevOps

Docker Kubernetes Prometheus Helm
Jenkins GitHub Actions Git Airflow Redis
Kafka Serverless GKE

AWS

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

Other

Linux Bash Cython MySQL PostgreSQL
BigQuery R

LINKS

View this resume as a WebAssembly app:

🔗 cv.kylekosc.dev

View the source code:

🔗 github.com/kykosc/resume-as-code

ABOUT ME

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

EXPERIENCE

Software Engineer, DevOps and Machine Learning

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.
- Responsible for building and maintaining CI/CD infrastructure for the microservice application stack.
- Owner of the core simulation API framework, which has bindings to multiple programming languages and compiles generically for any physics solver.
- Builds machine learning models to optimize compute resource allocation for physics solvers, minimizing hardware costs.
- Designs novel algorithms and data structures to enable highly-responsive, interactive 3D data visualizations in the web browser via websocket.

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.