Kyle Kosic

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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:

🔗 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. This enables thousand-core simulations on-demand with end-to-end encryption.
- Builds machine learning models for optimizing compute resource allocation for physics solvers.
- 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 with minimal hardware.
- 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.