

WILL ASBURY

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EDUCATION

Miami University

Bachelors of Science in Software Engineering
Business Analytics Minor - Data Mining

Oxford, OH

2014 - 2018

EXPERIENCE

Nielsen - Identity Engine

Sr. Software Engineer

April 2022 - Present

- **DevOps Engineer:** Worked to support business critical Airflow pipelines to orchestrate data ingestion, harmonization, and execution of Spark jobs on EMR. Built a solution for system versioning all codebases used in the pipeline to enable rollbacks, fixed production versions, and QA testing of changes

Nielsen - Platform SRE

Sr. Software Engineer

August 2020 - March 2022

- **Core member of SRE team:** Support and maintain shared compute, multi-tenet Kubernetes clusters across regions with Gitlab integration
- **Right of Erasure:** Core developer to design and implement a system to fulfill obfuscation requests from clients across PII datasets
- **Cost distribution solution:** Developed a cost allocation solution across a shared compute environment proportional to compute used and attributed in the clusters
- **Monitoring stack with Prometheus/Grafana:** Rollout of platform monitoring as a service for Kubernetes applications
- **Migration of EKS automation:** Converted to Gitlab native deployment using Terragrunt to simplify environments, centralized the automation to a platform team

Nielsen - Digital Architecture

Emerging Technologist Program

August 2019 - July 2020

- **Brand Safety POC:** Researched, trained, and developed NLP classification models to predict brand safety categories of new articles and video content to client's brand when placing advertisements
- **Kubernetes Operator:** Developed an operator in GoLang to automate the deployment and management of a custom collections system on Kubernetes infrastructure
- **Formation of SRE team:** Contributed to EKS automation to deploy Kubernetes clusters across regions and environments along with shared tools and services including monitoring, logging, Kubernetes dashboards, operators and authentication
- **Gitlab Migration:** Helped teams migrate to GitLab with seamless deployment to shared Kubernetes clusters through GitLab CI templates

Nielsen - NetSight

Emerging Technologist Program

August 2018 - July 2019

- **Data Engineer:** Contributed to the migration of a legacy Java application to Spark/Scala processing with EMR. Implemented collections system in AWS native technologies

SKILLS

Devops:	Kubernetes, Gitlab CI, Terraform, AWS, Harbor
Programming Languages:	Python
Big Data:	Airflow, Spark, Kafka

PROJECTS

Personal Finance React, Plaid, AWS (Lambda, API Gateway), Python

Developed a frontend to monitor net worth across assets, spend analysis, and investment position allocations

Data Collection Python, AWS (Lambda, S3, DynamoDB)

Developed various data mining projects including stock market data, option contract pricing, NFT market data, and Zillow price history

Content Graph React, Python, AWS (Lambda, API Gateway, DynamoDB)

Developed an interface to link content and notes into a knowledge graph

CERTIFICATIONS

Certified Kubernetes Administrator (CKA) - CNCF

April 2022

Functional Programming Principles in Scala - EPFL

May 2022