

# WILL ASBURY

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## EXPERIENCE

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### 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:** Refined a solution from scratch to protect a client's brand against potentially harmful content by using industry leading NLP models. Generated training datasets and fine-tuned models for category inference on text and video on-demand content (winner of Digital Hackathon).
- **Kubernetes Operator:** Developed a Kubernetes operator in Go to simplify the deployment and management of an internally developed, general purpose modular collections system used in production
- **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:** Assisted teams with the development of GitLab CI/CD pipelines which enabled the centralization of shared Kubernetes clusters and seamless application deployment

### 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

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

## PROJECTS

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**Personal Finance:** Developed a React frontend to monitor net worth across assets, spend analysis, and investment position allocations

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

**Content Graph:** Developed an interface to link content and notes into a knowledge graph

## CERTIFICATIONS

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**Certified Kubernetes Administrator (CKA) - CNCF**

April 2022

**Functional Programming Principles in Scala - EPFL**

May 2022

EDUCATION

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

Oxford, OH  
May 2018