

# WILL ASBURY

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## EXPERIENCE

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### Nielsen - Identity Engine

*Sr. Software Engineer*

April 2022 - Present

- **DevOps Engineer:** Worked to eliminate toil on a business critical team, including automation for managing code versions, cloud cost optimizations, and client permissioning. Implemented a system version across all codebases to improve control over the components used in production Airflow pipelines

### Nielsen - Platform SRE

*Sr. Software Engineer*

August 2020 - March 2022

- **Member of SRE Team:** Provided troubleshooting support for teams across GitLab CI, AWS, and Kubernetes. Deployment of shared monitoring, logging, and secrets management solutions
- **Right of Erasure:** Core developer on a small team to design and implement a system that orchestrates the obfuscation of PII across all datasets in compliance with GDPR and CCPA
- **Cost Allocation Report:** Developed a solution that distributes the shared cost of Kubernetes compute and AWS resources in a multi-tenant environment to drive budget forecasts
- **Kubernetes Monitoring Stack:** Contributed to a platform solution that provides monitoring as a service across multiple Kubernetes environments using Thanos. Created Prometheus rules, alerts, and Grafana dashboards to monitor cluster health and critical applications
- **Migration of EKS Automation:** Modularized EKS automation to a GitLab native deployment to simplify environments and promote a single centralized platform codebase to be used across the company

### 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 multi-tenant Kubernetes clusters across regions and environments to reduce the overhead of application teams
- **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 collections and processing system on-prem to AWS native technologies including Spark/Scala with EMR

## 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**

Oxford, OH

Bachelors of Science in Software Engineering

May 2018

*Business Analytics Minor - Data Mining*