

# Chidu Nadig

## Senior Developer

### TECHNOLOGIES

Java  
Python  
Go  
JavaScript

Spark  
Kubeflow  
Airflow  
Kafka

MySQL  
PostgreSQL  
Cassandra  
Mongo  
BigQuery

Tensorflow  
TFX  
VertexAI

Kubernetes  
Helm

Google Cloud Platform  
Amazon Web Services  
Infrastructure as Code

Agile Methods of Software  
Engineering

### SUMMARY

Software/Data/Machine Learning Engineer, with operational sympathy, looking to use experience, adaptive problem-solving skills, outgoing personality to collaborate closely with other engineers. I like building reliable systems in complex domains.

### PROFESSIONAL EXPERIENCE

#### Senior Software Engineer, Machine Learning, Unity Technologies

San Francisco, California

June 2020 – May 2023

*Machine Learning Engineer (MLE), Trust and Safety:*

- Researched, evaluated, and provisioned a Cloud Machine Learning Platform from the ground up to provide a seamless way to deploy, manage and scale Machine Learning (ML) workflows, using Kubeflow, VertexAI, Google Cloud Storage, Docker Images and PySpark.
- Collaborated with Data Scientists to incorporate TFX into Fraud Detection ML models in Kubeflow.
- Leveraged Kubeflow's versatility by utilizing Docker images and containerization to enable seamless integration of different Python libraries, resulting in successful migration of all Airflow jobs to Kubeflow, and achieving a sophisticated ML platform for Fraud Detection.
- Implemented Machine Learning as a Service (MLaaS) solution for Time Series Anomaly Detection, empowering multiple Business Intelligence teams to seamlessly analyze various datasets by templating ML codebase using Python Cookiecutter.

*Full Stack Engineer, Trust and Safety:*

- Maintained and developed containerized microservices in Go to classify fraudulent games and game-developers from ML predictions.
- Reduced financial losses and improved quality of traffic on DSPs by developing an admin dashboard feature in React to tag fraudsters and promptly disable serving of Ad-Campaigns.

#### Senior Software Engineer, Sovrn Commerce, Sovrn Holdings (formerly VigLink Inc.) San Francisco, California

Feb 2017 – Jun 2020

- Served as lead Data Engineer and contributed to development, refinement and scaling of all big-data and distributed data processing and storage systems.
- Improved Spark job resiliency by introducing Apache Airflow workflow management tool for recurring ETL jobs.
- Optimized AWS Redshift query performance, reduced AWS costs and reinforced Spark Application security via custom Amazon Machine Images.
- Developed a real-time tool using Cassandra and REST APIs to enable targeted advertisement placements based on IAB Categories and carefully selected phrases on publisher's websites.

#### Software Engineer, AOL Platforms (formerly Millennial Media Inc.)

San Francisco, California

Jun 2014 – Aug 2016

- Architected a First-Party Audience Segments Product into Pig and Spark applications pipeline to improve campaign targeting.
- Optimized Spark Applications to improve data throughput from processing 250GB/day to 350GB/day on the same hardware.
- Reduced render time of the Campaign Measurement Tool's front-end dashboard from 1 minute to under 1 second by optimizing server-size MongoDB queries in AngularJS Controllers.

### EDUCATION

#### Master of Science, Computer Science and Engineering

The State University of New York at Buffalo

Aug 2012 – May 2014

#### Bachelor of Engineering, Computer Science and Engineering

Visvesvaraya Technological University, India

Aug 2008 – May 2012

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