

# George Lloyd Williams V

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## EXPERIENCE

### **Amberflo, Usage Based Metering and Billing**

Remote – Palo Alto, CA

Operations Engineer, Backend Software Engineer – Metering and Billing Cloud

Sept 2023 – Feb 2025

- Improved developer experience by developing an internal API with 30+ tools to detect failure points at each stage of the data ingestion pipeline
- Heightened Python SDK functionality by implementing a decorator to allow accounts to track their LLM token usage
- Developed python production scripts to streamline the reconciliation of customer invoices which led to a 100% decrease in incident resolution time
- Designed and optimized our distributed system by gathering and enriching data on how customers use the Amberflo platform which led to a 20% increase in customer acquisition
- Optimized multiple product segments ranging from APIs, microservices, event driven data pipelines, and distributed systems pipelines which resulted in a 75% decrease in weekly incidents: also increasing stability and operational health
- Aided migration of 8 microservices from Lambdas to AWS ECS containers, reducing operational costs by 150%
- Created a one stop shop dashboard for Datadog monitors, enriched existing microservices with better log context to monitor performance and reduced time to resolving incidents by 50%

### **Alteryx, Advanced Analytics Cloud**

Remote – Irvine, CA

Associate Data Scientist, Intelligent Suite Software Engineer, Software Engineer II – Alteryx Intelligence Suite

Jan 2022 – May 2023

- Maintained AI/ML Python backends for 18 tools, supported React/TypeScript frontends, and led patches and releases
- Built a prototype for an AI document processing application which won a companywide Innovation Day award
- Enabled customer education through three articles on the Alteryx technical forum detailing PDF and image data extraction
- Refactored the AIS GitLab CI/CD pipeline to run 300% more efficiently
- Designed a connector to link Alteryx Designer with the OpenAI API to allow customers to integrate ChatGPT into their existing Alteryx workflows

### **Alteryx, Data Science Innovation**

Remote – Irvine, CA

Data Science Intern – Drift Detection Tool

May 2021 – August 2021

- Built a Drift Detection plugin for Alteryx Designer
- Collaborated cross-functionally with stakeholders to understand the Data Drift phenomenon and how to implement a solution using p-scores
- Presented a solution to Integrate Health to inform the non-profit of outliers within data and establish strategies to lower business costs and improve treatments
- Participated in agile development processes, including sprint planning, stand-up meetings, and retrospectives

### **Optum, Enterprise Information Security**

Plymouth, MN

AI & ML Intern - Automated Medical Claims Fraud Detection

June 2019 – August 2019

- Converted SAS scripts into Python scripts that scan automated reports for various fraudulent claims
- Created 15+ page tutorials and help documents for 100+ engineers on how they could run/use the application
- Wrote multiple GSQL queries to identify roughly \$3 Million fraudulent medical claims out of 15 GB of claims data
- Achieved 80-90% accuracy when testing consolidated medical claims data using only 20 nodes as the input layer
- This project was passed through Optum's AI & ML patent board and is searchable under A/B reference number: 054642/536653

## RELEVANT LEADERSHIP

### **Mu Sigma Chapter of Phi Gamma Delta**

Minneapolis, MN

Recording Secretary

November 2016 – November 2017

- Responsible for disciplinary action and communication delivery of 90 active members
- Worked on incorporating realistic Academic Goal Setting and Time Management Skills into the pledging process
- Established philanthropic tradition of the "Phi Gamma Delta Casino Night" where students, friends, and families can come and play casino games at McNamara Alumni Center in support of cancer research

## EDUCATION

University of Minnesota – Twin Cities (College of Science and Engineering)

Minneapolis, MN

Bachelor of Science, Computer Science

## SKILLS

Languages: Java, Python, HTML, CSS, JavaScript, TypeScript, React

Concepts: REST APIs, Data Structures & Algorithms, Exploratory Data Analysis, Data Science, Agile Methodologies, RDMS

Technologies: AWS Timestream, Athena, S3, SQS, SNS, CloudWatch, CloudFormation, Lambda/Serverless, ECS, DynamoDB, API

Gateway, Datadog, Guice, Gradle, sci-kit learn, numpy, pandas, GSQL, MySQL, Git, Linux, OpenAI API, FastAPI, Jupyter Notebooks