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**JAMES EUBANKS**

**DATA SCIENCE AND BACKEND ENGINEERING**

**Experience**

**WOW! Internet, Cable, and Phone**

**Feb 2022 - Present**

**Senior Data Scientist**

* Developed and executed a comprehensive "health of the home" project roadmap to identify, monitor, and proactively resolve in-home network issues.
* Conducted thorough product evaluations and executed multiple proofs-of-concept (POCs) on graph databases to effectively model network topology while minimizing lookup times.
* Created a backend API using the FastAPI framework to streamline data validation and perform CRUD operations on both a graph and Postgres database.
* Designed and implemented a centralized data architecture and clear data pipeline diagrams to seamlessly integrate with more than 10 distinct systems.
* Orchestrated the deployment of applications, pipelines, and databases by leveraging GitLab Runners for efficient DevOps processes and employed Kubernetes for container orchestration.
* Successfully managed a team of 5 data scientists and data engineers, aligning development timelines with other parts of the organization to ensure efficient collaboration and project delivery.
* Mentored senior backend developers and implemented company-wide coding standards for API development and
* documentation.

**Cox Communications**

**Nov 2020 - Feb 2022**

**Sr. Data Scientist**

* Developed a comprehensive project charter for an anomaly detection and process control ecosystem, establishing clear objectives and guidelines for implementation.
* Established database schemas and infrastructure to efficiently hold aggregated transaction data.
* Utilized pySpark, EMR, AWS Step Functions, and Oozie workflow to develop efficient ETL packages, swiftly taking the "Apollo" project from prototype to production within a tight six-week timeframe.
* Conducted in-depth analytics on various internal software systems, including Splunk logs and a PEGA-based workflow system, identifying opportunities that resulted in an approximate $1 million annual reduction in OpEx spend.
* Identified automation opportunities, facilitated knowledge discovery, enabled data-driven decision-making, optimized processes, and recommended new capabilities to drive operational efficiency and effectiveness.
* Provided mentorship to junior team members and collaborated closely with interns, fostering their professional development, and promoting documentation strategies for knowledge transfer and organizational continuity.

**NCR**

**Aug 2020 - Nov 2020**

**Data Scientist / API Developer (Contract)**

* Designed and implemented the backend application architecture for the “Intelligent Kitchen” project within Google Cloud Platform.
* Created pytest testing suite and documentation for backend API built with Flask-RESTx.
* Identified data sources for intelligent routing, capacity planning, and order time predictions.
* Served as Tech Lead reporting to the VP of Engineering.

**Workforce Logiq**

**Mar 2016 - Aug 2020**

**Enterprise Data Architect/Scientist**

* Managed a team of 4 working on data aggregation and presentation, machine learning, and AI projects.
* Developed the company's Machine Learning/Artificial Intelligence roadmap. Created product plans and prototyped SOW Cost Estimation and SOW Document Generation models (nltk).
* Served on the Data Governance committee and oversaw aspects of the Data Quality initiative.
* Designed and developed Azure based Flask application for extracting data from multiple sources while providing the user “drag and drop” functionality with a React front end.
* Created the database schemas in PostgreSQL using the SQLAlchemy ORM and alembic for easy migrations.
* Integrated a Flask blueprints backend with a React.js front end using Docker containers and compose.
* Created and prioritized product development work using the Agile methodology.
* Worked with stakeholders to architect data warehouse solutions to meet analytics requirements.

Trained the Business Intelligence and Data Engineering teams on Sisense and Elasticubes.

Mentored members of the Data Engineering and backend development teams in Python, PostgreSQL, and API requests.

As a member of the Data Governance Committee comprised of individuals from across all aspects of the organization, created data ingestion rules ensuring high data quality.

Wrote policy and procedure, training, and technical documentation for Data Services.

Business/Data Analyst

Developed a new scoring model and program to evaluate vendor performance.

Consolidated and analyzed monthly, quarterly, and yearly data to provide the client with insight into all of their external labor activity.

Developed SQL scripts for ad hoc financial reporting.

**Interactive Communications (Incomm)**

**Network Optimization Analyst**

* Developed a supervised machine learning model to estimate approximate changes in volume and margins.
* Reduced manual data input time by developing a pricing function to create customer rate sheets as well as predict expected traffic changes based on customer targets.
* Analyzed trends in domestic and international call volume data to identify and mitigate fraud.

Apr 2015 - Mar 2016

Develop-This

CIO / Data Generalist

Developed information storage, storage, presentation, and architecture strategies ensuring compliance with regulatory policies such as GDPR and CCPA.

Lead development of backend APIs and database connections.

Planned and provided community training events for aspiring developers to hone their skills.

Ensured technology landscape and expenses remained appropriately balanced with company growth.

Sep 2022 - Present

Trilogy Education Services

Data Visualization Bootcamp - University of Central Florida

Taught students in data cleaning, preparation, transformation, and visualization techniques using Python and Javascript.

Introduced students to Machine Learning and Big Data concepts.

Taught students SQL using Postgres, web scraping with Python, and introduced students to MongoDB.

Taught students backend web development using Flask.

May 2019 - Aug 2022

United States Marine Corps Reserve

Sergeant

Squad Leader — Responsible for conducting annual performance reviews and ensuring my subordinates were up to date

on required trainings; as well as cultivating high morale.

Supply Chain — Responsible for maintaining and accounting for approximately $1.5 million in government equipment.

Nov 2006 - Nov 2012

Kennesaw State University - Kennesaw, GA

Masters of Science Applied Statistics and Analytics Graduated May 2023

Kennesaw State University - Kennesaw, GA

Bachelor of Science Mathematics Graduated May 2014