
JAMES EUBANKS

DATA SCIENCE AND BACKEND ENGINEERING

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Relevant Experience

WOW! Internet, Cable, and Phone

Feb 2022 - Present

Manager of Data Science and Engineering

- 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

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)

Apr 2015 - Mar 2016

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.

*Other
Experience*

Develop-This

Sep 2022 - Present

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.

Trilogy Education Services

May 2019 - Aug 2022

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.

United States Marine Corps Reserve

Nov 2006 - Nov 2012

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.

Education

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

*Technologies
Used*

Python	FastAPI	Flask
pandas	SQLAlchemy	Celery
Google Cloud Platform	JIRA	Apache Kafka
SQL Server	PostgreSQL	MongoDB