Ben Goldweber

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Dedicated, creative, and resourceful developer adept at bringing together stakeholders with conflicting objectives to form a cohesive team and work towards a common goal. Passionate about bringing Data Science, Engineering, and Machine Learning together for intelligent decision making.

EXPERIENCE

United Health Care   **July 2021 – Present**
Sr. Software Engineer
Lead for enterprise monitoring engineering, focusing on developing end-to-end monitoring, enabling data-based decision making.

Projects:

- Monitoring gap management- Oversee development solutions in AWS to provide analytics for data-based decision-making around critical application events. Lead meetings and provide regular project updates for leadership. Built a team to handle the development, research, and maintenance of a growing monitoring initiative. Built out solutions utilizing Lambdas, CloudWatch, S3 buckets and RUM

Connect Your Care   **July 2019 – July 2021**
Lead Automation Engineer
Lead for process automation and ETL pipelines.

Projects:

- Automation center of excellence: Drove performance enhancement decisions through data. Saw overall framework performance improvements of 65%, including runtimes compressed from four hours to under one and a transaction backlog reduction of 80%.
- Legacy ETL Pipeline improvements: Through core logic updates, oversaw the expansion of scheduled batch processing runtimes from 9-5 to 24/7, increased consistency, and associated analytics reporting capabilities.

International Business Sales and Services (IBSS)   **Oct 2017 – May 2019**
Software Developer
DevOp contractor to NOAA supporting the agency's Fisheries Financial Services division Loan management systems, Chesapeake Bay interpretive Buoy System, and Chesapeake Bay Education System.

Projects:

- Loan management application development: Redesigned and developed a loan management web application, which handles $1B+ worth of assets. Rehaul included moving from a monolithic application to a Kubernetes cluster, requiring the coordination of multiple cross-departmental initiatives.
- Chesapeake Bay Buoy Server Architecture: Ensured high data availability of 99.99% uptime. Upheld data integrity through the backup, failover, and dynamic cutover systems for NOAA's Chesapeake Bay weather & water servers

Personal Education Projects

Network Insight builder
- Application that pulls in and builds insights from your networking tools. Ex: Outlook. Utilizing ML NLP topic classification, sentiment analysis, and graph theory to provide insights for the user on whom they may want to contact to move forward with an initiative.

Average Deprivation Index (ADI) relationship to communities Covid death rates
- EDA, hypothesis testing, and experimental development in Jupyter notebooks, exploring how a community's average deprivation index could be used as a predictor of COVID death rates

Job Posting Datamining and requirement analysis
- Wrote and deployed a job posting web scraper, pulling in several hundred Machine learning and Data Science positions. Utilized Named Entity Recognition & Latent Dirichlet Allocation algorithms to identify patterns in requirements – and help fine-tune this Resume!

KNOWLEDGE AND SKILLS

Language Proficiency
- Python, SQL, JS, POSH, CSS, HTML,

Distribution Familiarity

Machine Learning
- TensorFlow, Keras
- PyTorch, PySpark
- SciKit Learn, SciPy
- OpenCV, Nltk, Spacy

Array/Table management/Math
- NumPy, Pandas

Visualization
- Matplotlib, NetworkX, Seaborn

Interface Development Distributions
- Dash, Flask, Django

Testing, Performance, Profiling Tools
- PyTest, Hypothesis, cProfile

Databases
- PostgreSQL, Oracle DB, Microsoft SQL

Tools & Platforms
- Docker, Jupyter Notebooks
- Amazon Web Services (AWS) & Google Cloud Platform (GCP)
- PyCharm Professional, DataGrip, Jupyter Notebooks
- Git – GitHub, SourceTree, Bitbucket

Algorithms, Techniques & Designs Patterns
- Data Engineering, Model development & deployment of supervised & unsupervised topic classifiers, sentiment labelers, and named entity recognition
- OOP Creational, Structural and Behavioral patterns
- MVC Development

AWARDS

- 2022 Awards for File & System Monitoring Leadership, as well as a 2021 award for IT monitoring and alerting implementation for newly acquired platforms
- 2021 ConnectYourCare champion award: Q4 Individual awards – In recognition of collaborative cross-departmental engagement with stakeholders and dramatic improvement to core automation & data processing frameworks saving a combined 800+ hours of labor in 2020

EDUCATION

College of the Atlantic -
Human Ecology, 2014-2016
Economic and systems theory on human-environmental dynamics

Montgomery *College,* **2022**
Data Science
Coursework on utilizing ML for data science

Self-Education – Ever learning. Check me out on GitHub or my site Bengoldweber.me