Ben Zhong

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WORK EXPERIENCE

Verisk Analytics Data Scientist in Rotation | Remote

Digital Media Forensics   **July 2024 – Present**

- Improving a new proprietary revenue generating computer vision model for fraud detection

GenAI Application for Medical Record Processing   **Feb 2024 – June 2024**

- Built an LLM endpoint with AWS bedrock & Textract that is **25%** more accurate than existing tradition ML solution
- Lead 3 software engineers and data scientists in R&D on LLM models performance and cost analysis and

Entity Resolution   **Feb 2023 – Feb 2024**

- Achieved more than **80% reduction** of computation time and cost overhead by proactively and independently optimized a production Spark pipeline. Designed and implemented highly scalable, resilient big data pipelines.
- **Patent pending** quality evaluation metrics for entities: leading to substantial improvements in the entity searching client-facing API.
- Conducted r&d on various banking and financial data sources; presented to and convinced stakeholders to use said data sources to enhance our Entity Resolution

Wood Mackenzie Lens Data Engineering   **Feb 2022 - Feb 2023**

- Designed and implemented NLP fuzzy text matching and clustering solutions.
- Collaborated with the Research team to ETL company Merger & Acquisition data

Summer Intern   **June 2021 - August 2021**

- Built custom NLP solutions and **2X** Spark pipeline speed

EOG Resources Production Engineer Intern | San Antonio, TX   **May 2020 - August 2020**

- Saved up **to $2 million a year** in gas injection cost in the Eagle Ford basin operations

UT Austin Undergraduate Research Assistant and Tutor | Austin, TX

Machine Learning Research, Dr. Michael Pyrcz   **August 2020 - December 2021**

- Uncertainty modeling for ensemble learners

Python/Engineering/Advanced Math Courses Tutor   **August 2020 - December 2021**

- Tutoring all major required courses + differential equations/linear algebra 20 hours/week

Rig Automation Performance Improvement in Drilling (RAPID)   **October 2018 - May 2020**

- Computer vision for drill bit dull grading with YoloV3

ACCOMPLISHMENTS & SKILLS

- AWS Cloud Practitioner Certified
- Published paper "***Plunger Style Optimization by Machine Learning***" on OnePetro
- SPE Student Paper Contest Southwestern North America Region **1st** Place; qualified for international competition
- Python data and deep learning stack, Spark, SQL, JS, html, CSS, React, Angular RxJS
- Fluent in English and Chinese; Beginner in Spanish

EDUCATION

The University of Texas at Austin   **December 2021**

- B.S., Petroleum Engineering Honors. Full-Scholarship.   GPA: 3.93 / 4.00