Miles Hill

Data Enthusiast

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Work Experience

- **Business Laboratory**
- 11/2015 - Present
- Modeling & Computation

  ☐ Coordinate with customers and Subject Matter Experts to define and implement business logic
  ☐ Create computational models (optimization, simulation, machine learning) that provide solutions to customers
  ☐ Generate and automate reports, tasks, and processes when possible

- **Halliburton**
- 10/2008 - 7/2011
- Field Professional

  ☐ Control quality of service delivery and execution during all phases of operation
  ☐ Plan, prepare, and coordinate well site operations
  ☐ Train and supervise crew
  ☐ Foster and maintain customer relations by establishing positive image and confidence

- **US Marine Corps**
- 5/2002 - 5/2006
- Sergeant E5 - Infantry

  ☐ Strategic deployment of firepower to ensure mission success and troop welfare
  ☐ Organized batallion level supply logistics
  ☐ Train and educate all junior Marines on SOPs and tactical knowledge

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Projects

Energy Demand Forecasting

GOAL: Determine factors that act as capacity load drivers for energy provider.

IMPACT: Increase profit margins via loss minimazation.

CONTRIBUTION:
- Develop and code logic for 26 utility/meter combinations
- Create web API to interface with RDBMS and dashboard using Flask
- Automate with Shell and python

Gulf Transport Optimization

GOAL: Develop optimal loading and shipping schedule to minimize cost and maximize volume.

IMPACT: Maximize volume shipped and minimize total costs.

CONTRIBUTION:
- Create simulation to behave as objective function
- Write Wolfram Language wrapper for Java Evolutionary Algorithm Optimizer

Computational Voice Queries

GOAL: Query dataset via voice interaction. Summary statistics spoken and UI updated reactively.

IMPACT: Enable non-developers to ask queries and provide reactive analytics.

CONTRIBUTION:
- Data Model using Neo4j graph database
- Flask web API for Alexa skills link
- Wolfram Language for summary statistics and output generation

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Education & Skills

- **University of Texas at Austin**
- 8/2013 - 12/2015
- BS Physics (Computational)

- **Austin Community College**
- 7/2011- 8/2013
- AS Chemistry

- Python / Wolfram / SHELL
- JavaScript (D3 Library)
- HTML / CSS
- SQL

Employer — **Skill Transfer**

Sankey diagram — Employer: USMC, Halliburton, Business Laboratory linked to Skill Transfer: Interpersonal Communication, Leadership/Collaboration, Time Management, Problem Solving, Project Management, Technical Experience