Jason Bian

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Industry Experience

Microsoft, Cloud Capacity Experience
Program Manager *Feb 2020 to May 2021*

- Maintained production ML and operations research models in R and Python for azure datacenter gpu/cpu buffer planning with ~50 million dollars of monthly Capex
- Drove large analytics programs to offer restrict capacity in hot datacenter regions via managing vendor scrums, scaling existing data pipelines, and automating manual processes
- Built CVP level analytics infrastructure for azure growth rates and weeks of supply in monthly capacity calls

Cloud Supply Chain Planning Intern *Summer of 2019*

- Built a production regression based analytics model to capture infrastructure power needs for all Microsoft datacenters using sku power ratings, supply and demand data, colo attributes, and networking inventory
- Deployed the regression model into production systems with the new model reducing planning delays for 112 compute datacenter clusters

Cummins, Supply Network Operations
Manufacturing Intern *Summer of 2018*

- Identified and ordered $326k worth of critical tooling and spares to resolve inventory bottlenecks
- Implemented a plant wide statistical reorder point algorithm for tooling and spares, reducing part related downtime of bottleneck assets from 875 hours in May to 500 hours in July and August

DTE Energy
Gas Operations Co-op *Summer and Fall of 2017*

- Piloted a contractor gas pressure testing process that used SharePoint app workflows
- Implemented a SharePoint database and interface across gas operations to document engineering defects with 500 unique defects entered by engineers and contractors upon creation
- Created automated metrics, workflows, and embedded escalations to track problem solving for the defect database, reducing the 6 mo. rolling defect closure rate for safety defects from 110 days to 78 days

Education

Industrial and Operations Engineering *Graduation: Dec 2019*
B.S.E University of Michigan Ann Arbor GPA 3.4/4.0
Relevant Coursework: Theoretical Probability, Simulation, Markov Processes, Data Structures, Services Operations

Research

University of Michigan Transportation Research Institute
Research Assistant *2018-2019*

- Human factors research using naturalistic driving data under Dr. Shan Bao
- Machine Vision data wrangling, classification, visualization, and statistical modeling using SQL and R using IVBSS research data (https://www.its.dot.gov/research_archives/ivbss/index.htm)
- Recipient of the Myun Lee Scholarship in Human Factors
- R Shiny lab tool development for 3d spatial visualization of overtaking data

Technical Skills

Programming Languages:	Python (Numpy, Pandas, Django, Flask), R (dplyr), SQL, C++, Javascript
Databases:	Azure SQL, Azure DataLake/blobs, Parquet, Databricks, Azure DataFactory, Azure Eventhub
Visualization:	PowerBi, ggplot, matplotlib, Tableau, Shiny, Tkinter
Statistic/Optimization:	ARIMA, Regression/Random Forest, Linear Programming, Markov Chains, Simulation