Joseph Plattenburg

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EXPERIENCE

Root Insurance Company, Columbus, OH

Staff Data Scientist   Nov 2020 — Present
- Developed new predictive scoring model, providing over 10% improvement
- Led rearchitecture of ETL pipeline, delivering 100x cost reduction
- Supported development of internal software package repository
- Managed 1-2 data scientists and provided consulting on several cross-disciplinary projects

Director of Data Science, Telematics   July 2019 — Nov 2020
- Managed team of 4-6 data scientists
- Oversaw implemention of new scoring models and telematics algorithms
- Led and contributed to redesign of production code in python

Lead Data Scientist, Telematics   Apr 2018 — July 2019
- Built predictive models for scoring, distracted driving, and driver passenger classification
- Improved predictive power of existing algorithms by nearly 2x

Owens Corning Science and Technology, Granville, OH

Advanced R&D Engineer   June 2016 — Apr 2017
- Designed experimental procedure and data analysis algorithm for material property testing
- Initiated collaboration with university researchers, leading to a funded project

Self-Employment

Independent Contractor   2015 — 2021
- Developed prototype software and hardware interface for real-time detection and classification of acoustic events

EDUCATION

PhD, Mechanical Engineering, May 2016
The Ohio State University, Columbus, OH (GPA: 4.0)
Focus Areas: Acoustics/Vibrations, Signal Processing, Modeling
Dissertation: "Analytical Vibration Models for Plates and Shells with Combined Active and Passive Damping"

Bachelor of Science, Mechanical Engineering, June 2012
The Ohio State University, Columbus, OH (GPA: 3.97)
Minors: Mathematics, Music

SKILLS

Operating Systems: Ubuntu, Windows, Mac
Languages: Python, SQL (Postgres/Redshift), R, MATLAB, bash
Tools / Frameworks: Jupyter, Spark, AWS (Athena, Glue, Sagemaker)
Data Science: Exploratory analysis, time series, predictive modeling (e.g. GLM, GBM, Random Forest), model deployment and evaluation
Data Engineering: ETL pipelines, ML model deployment pipelines, CI pipelines
Spanish Language: read, write, and speak with basic competence