Sanders Li

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SUMMARY

Graduate from the University of Southern California with experience as a dimensional engineer at Precision Castparts Corp. Demonstrated talent in problem-solving, process improvement, and delivering effective data-driven solutions. Seeking to leverage previous data analysis experience in the aerospace industry to business data analytics.

WORK EXPERIENCE

Precision Castparts Corp, Dimensional Engineer 2019 – 2020

- Responsible for ensuring dimensional compliance of titanium casting products in multi-million-dollar product lines.
- Orchestrated cost-reduction projects involving cross-functional teams of engineers and operations supervisors, reducing product lead time by 6%.
- Oversaw experimental solutions to improve manufacturing processes, reducing dimensional inspection time by 85%.
- Liaised between external customers and internal departments, interpreting customer specifications and quality standards to create technical instructions for operators.
- Leveraged insights from data to effectively tackle key manufacturing problems and prove manufacturing capability, reducing surface defects on GE fan frame castings by an estimated 62%.

Commedia Inc, Python Development Intern 2018

- Developed and implemented a domain evaluation system in Python for automatic content categorization, using multithreading, RocksDB, and Docker to provide a cross-platform, scalable solution.
- Utilized design docs, git, code reviews, and rapid prototyping to collaborate with peers and effectively develop system features and functions.

PROJECTS

San Francisco Neighborhood Business Analysis, IBM Capstone Project 2020

- Applied k-means clustering with Scikit-learn to develop a machine learning model that assists in determining the optimal neighborhood for a business to be located.
- Scraped geolocation and business data from the US Census Bureau, SF City Government, and Foursquare API.

Camino – Travel Route Optimization, Personal Project 2020

- Utilized Google OR Tools to develop a custom algorithm that generates optimal itineraries, minimizing travel time while accounting for business locations and hours.

TECHNICAL SKILLS

- **Languages:**, Python (Scikit-learn, Keras, PyTorch, TensorFlow), SQL, MATLAB, LabVIEW
- **Web Technologies:** Python Flask, Javascript (React, Node.js), HTML5, CSS
- **Databases:** PostgreSQL, MySQL, RocksDB
- **Tools:** JMP (SAS), Excel VBA

EDUCATION

University of Southern California, Viterbi School of Engineering Graduated: 2019
Bachelor of Science in Aerospace Engineering, 3.3/4.0 GPA
Certificates: IBM Data Science Professional Certificate, IBM AI Engineering Professional Certificate