

MICHAEL SCHMIDLIN

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Summary

Data Scientist (MS) with 7 years of experience in machine vision and automated measurement systems. Expertise in developing robust software solutions within complex codebases, applying data science to optical metrology and manufacturing. Proven ability to collaborate with cross-functional teams to deliver impactful results.

Work Experience

Corning Incorporated

September 2022 – Current

Sr. Data Scientist

Corning, NY

- Led a team of 3 through a code refactor of 10,000 plus lines of essential image processing code in order to make the code base more flexible and easily expandable.
- Trained and deployed an image classification model as part of a larger feature detection image processing algorithm.
- Developed a system for "Image Validation" to pre-validate measurement images before the measure button is pressed on an offline measurement system. The validation procedure runs at 20fps in live view which insures measurement quality before a measurement is completed.
- Modeled glass frangibility (brittle-ness) with Logistic Regression in order to determine the USL (Upper Spec Limit) for glass stress in production.
- Deployed python streamlit apps for a range of uses including modeling glass attributes, data analysis, and data reporting.

Corning Incorporated

May 2018 – September 2022

Measurement Engineer

Corning, NY

- Performed and automated data analysis on production data using python scripts and SQL queries to determine effectiveness of inline measurement systems.
- Quantified repeatability of measurement systems through GRR (Gauge Reteatability and Reproducability) and ANOVA (Analysis of Variance) across a wide range of measurements systems that measure glass attributes such as stress, thickness, defect dection, warp, and dimensions (width and height).
- Accelerated development of glass vial measurement systems to high volume manufacturing as part of \$204M government program *Operation Warp Speed*.

Education

Data Science Master's Degree

May 2023

University of Denver, Daniel Felix Ritchie School of Engineering & Computer Science

Remote

Math & Music Bachelor's Degree

May 2018

State University of New York at Potsdam

Potsdam, NY

Non-work Projects

Slide Quest | *Python, pygame*

2024-2025

A puzzle game developed in python for PC. The game has several key features including automatic seeded map generation, a breadth first search algorithm to solve the level in the least number of moves, and a level editor which is used to create custom kernels that are used for seeded map generation.

Master's Capstone: Stock Price Data Analysis | *Python, alpaca, pytorch*

April 2023

A data analysis project focusing on predicting future stock prices. News data was scraped and cleaned using custom website scraping code and then classified using sentiment analysis. RNN (Recurrent Neural Network), LSTM (Long Short Term Memory), and GRU (Gated Recurrent Unit) neural networks were used to try to preduct future stock prices based solely on historical stock prices. A trade bot was built with alpaca-py for data collection and automated stock trading.

Technical Skills

Programming Languages: Python, C#, SQL, R, C, C++

Tech Stack: VS Code, Visual Studio, .Net, WPF, Winforms, Git, S3, Machine Learning, IOC/Dependency Injection

Data Analysis: Python, Excel, JMP, Minitab

Applicable Libraries: Open-CV (Emgu.CV), Numpy, Pandas, Matplotlib, Plotly, streamlit, pytorch, tensorflow