

I am a computer scientist and data scientist with over 20 years of experience in areas such as:

- algorithm design and implementation,
- analytics & data science, and
- data visualization.

I have worked on a variety of application domains including image compression, retail forecasting, retail banking, risk management, asset management and most recently recommendation systems.

I have coded applications in C++, Java, Fortran, and Matlab but for most of my recent work I have used the Python ecosystem with SQL and occasionally R.

Below is a sample of some of the Data Science, Machine Learning or AI projects I have worked on.

- Personal projects
 - Predicting the number of jobs added in the US.
 - Analysis of voting data from the 2020 election, Georgia.
 - Analysis of Asset Manager holdings, using SEC 13-F filings.
- Part of online coursework:
 - Image recognition.
 - Search tree algorithm for games, Pacman.
 - Collaborative filtering for recommendations.
 - Matrix Factorization for recommendations.
- Consulting
 - Clustering survey responses to find “natural” groupings.
 - Survival Analysis for customer attrition.
 - Predicting failures in oil equipment.

Due to health issues starting in 2018 my career was sidetracked, hence the gap in my resume. I am happy to say that I have rebounded. In 2021 I organized an online seminar through [Deeplearning.ai](https://deeplearning.ai), *Migrating to Deep Learning*, to explore/discuss how technical people with experience in Data Science can get started in Deep Learning.

I am currently working through the Stanford online courses that are part of the AI certificate. In 2021 I did the AI course. At the start of 2022 I did the graph ML course and moved on to the ML course. I hope to follow up soon with either the Reinforcement Learning or the Natural Language Processing course.

*I am looking for a role where I can apply and continue to develop
my skills in computer science and data science*

I would love to speak with someone about how I could contribute to your organization. Best regards, John Muller