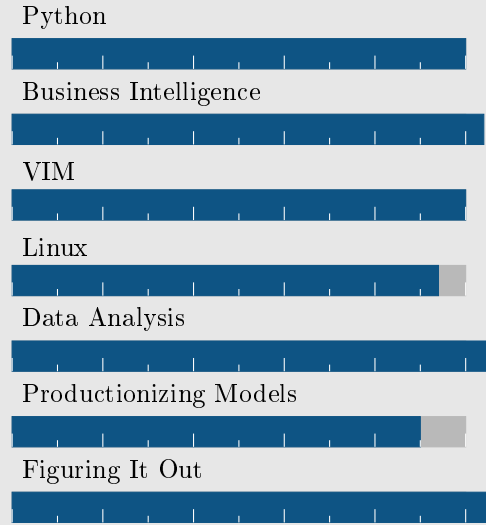# Michael Horvath
Data Scientist

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About me

Originally from Kansas, Michael has lived in eight states and two countries. Michael enjoys climbing, running, playing guitar and anything that gets him outside. He's been writing software for about seven years now, but he's been exploring since the day he could walk – perhaps even earlier.

Skill

Python

Business Intelligence

VIM

Linux

Data Analysis

Productionizing Models

Figuring It Out

Teamplayer⋆6 Easygoing⋆4.78

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

beliefs

Passion is a must.

Software = Poetry + Math

education

2006-2011	B.A. cum laude	University of Kansas
	Statistics and Research Methods	
2002-2006	High school, 4.0 GPA	Shawnee Mission East HS
	Extras: Diving, Soccer, Choir, Science Olympics	

awards

1997-2001	Math Olympics State Champion, Pennsylvania Assoc. of Private Schools
2005	Science Olympiad State Champion, Chemistry
2006	CalTech Signature Award, Excellence in Science and Mathematics
2016	Heart and Soul Award, Lawrence Ultimate Frisbee League

experience

| 2022 - 2023 | Software Engineer | Maxar Technologies |

- Back-end development in Sanic micro-service architecture system.

| 2021 - 2022 | Lead Data Scientist | Fluxergy |

- Head of data and algorithms department.
- Study design, program evaluation, data sampling, and data analysis.
- Collaborated cross-departmentally to design, connect, and commodify business intelligence pipelines.
- Oversaw algorithm development and increased accessibility of data for decision making, via KPI dashboards and PowerBI reports.

| 2020 - 2021 | Algorithms Engineer | Fluxergy |

- Developed primary image-based PCR analysis algorithm from prototype to ISO certificied embedded product.
- Deploy classification algorithms and optimize for wide array of inputs.

| 2018 - 2020 | Software Engineer | Fluxergy |

- Designed, developed, and maintained data-centric internal applications.
- Work across departments to gather requirements and build out specifactions for first three versions of company-wide data infrastructure.

| 2017 - 2018 | Machine Learning Engineer | Embrace Healthwear |

- Model selection, data preprocessing and vectorization for machine learning classification of high-frequency time-series data.

| 2015 - 2022 | Personal Projects | |

- Neural net generator for exploring node generation, tuning and lifecycle of basic machine learning processes in Elixir.
- Machine learning-based high frequency trading bot.

tools

| 2017-2023 | Python, Scikit-Learn, SciPy, Pandas, Numpy, TensorFlow, Matplotlib, MySQL, Docker, docker-compose, Git, Cloud resources (Azure and AWS), database design, datalake, scaling and paralelization, Elasticsearch and Kibana, PowerBI, CI/CD, machine learning, support vector machines, k-nearest neighbors, natural language processing, computer vision, lambda functions |
| 2010-2020 | Program evaluation, technical liaison, public speaking, regression analysis, ANOVA, MANOVA, optimization, structural equation modeling, business intelligence |