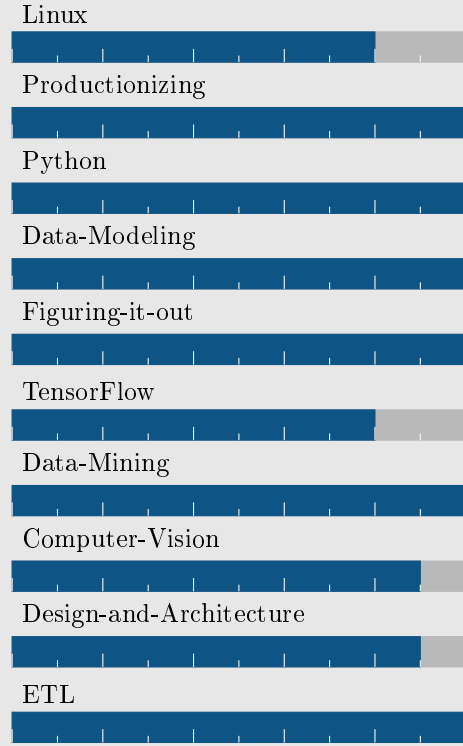# Michael Horvath
Machine Learning Engineer

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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

Linux

Productionizing

Python

Data-Modeling

Figuring-it-out

TensorFlow

Data-Mining

Computer-Vision

Design-and-Architecture

ETL

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

motto

Continual growth is key to enjoyment of life; challenge begets growth.

Software = Poetry + Math

education

2006-2011	B.A. cum laude Statistics and Research Methods	University of Kansas

awards

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

work history

2022	Backend Engineer	Maxar Technologies

- Microservices development in enterprise level asynchronous GIS system.

2021	Lead Data Scientist	Fluxergy

- Led data and algorithms team in development of new algorithms and data services across numerous departments.
- Designed, connected, and commodified business intelligence pipelines.
- Study design and program evaluation.

2020	Data and Algorithms Engineer	Fluxergy

- Developed triphasic image-based PCR analysis algorithm, through all phases of QMS software development lifecycle.
- Data pipelining, feature selection, computational benchmarking, labeling and segmenting.

2018	Backend Engineer	Fluxergy

- Designed, developed, and maintained data-centric internal applications.

2017	Machine Learning Engineer	Embrace Healthwear

- Developed machine learning algorithm to recognize gait anomolies and predict accidents in geriatric patients.

2012	Carpenter	Benchmark Construction

- Commercial construction and remodeling, residential remodeling.
- Framing, drywalling, plumbing, electric, flooring.

2015 - 2022	Personal Projects

- Number-test suite for exploring automated parameter tuning and lifecycle of machine learning models in Elixir.
- High frequency trading algorithm development and back-testing.

skills

Programming	Python, Django, Flask, Sanic, PHP, MySQL, Docker, LaTex, docker-compose, Git, Cloud , Javascript/HTML/CSS, CI/CD, Infrastructure as code, Google, Microsoft Office, Excel, Typescript, Pandas, Numpy, SciPy, Docker, Azure, AWS, Lambda functions, SAAS, Microservices, Streaming, Pub/Sub, Internet-of-things (IoT), Testing, TDD, AI
Stats/ML	R, Database desgin, Elasticsearch and Kibana, PowerBI, Statistics, Structural Equation Modeling, ANOVA, MANOVA, Regression, Multiple Regression, Machine Learning, Deep Learning, PyTorch, SVM, Decision Trees, Anomoly Detection, NLP, Optimization, Power Analysis
General	Program evaluation, technical liaison, presentation and public speaking, business intelligence, requirements gathering, data visualization, data wrangling, project management, Kanban, Jira, DevOps.