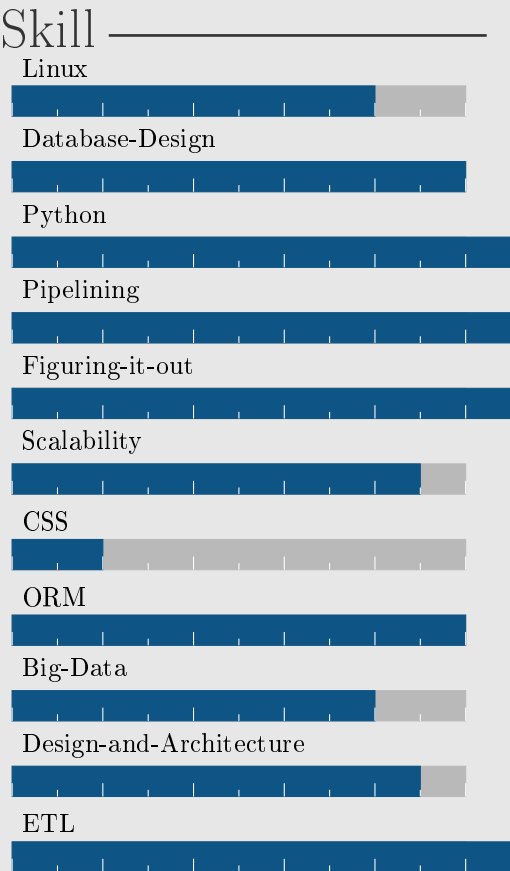# Michael Horvath
Data Engineer

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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

Database-Design

Python

Pipelining

Figuring-it-out

Scalability

CSS

ORM

Big-Data

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	University of Kansas
	Statistics and Research Methods	

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.
- Unit, functional, integration, and regression testing.

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 across departments.
- 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.

2018	Backend Engineer	Fluxergy

- Designed, developed, and maintained data-centric internal applications.
- Requirements gathering, technical writing.

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.
- Rough carpentry, finish carpentry, drywalling, basic plumbing, basic electric, tiling, flooring.

2015 - 2022	Personal Projects

- Neural net generator for exploring automated generation, tuning and lifecycle of machine learning models in Elixir.
-
- High frequency trading algorithm development and back-testing.

skills

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