




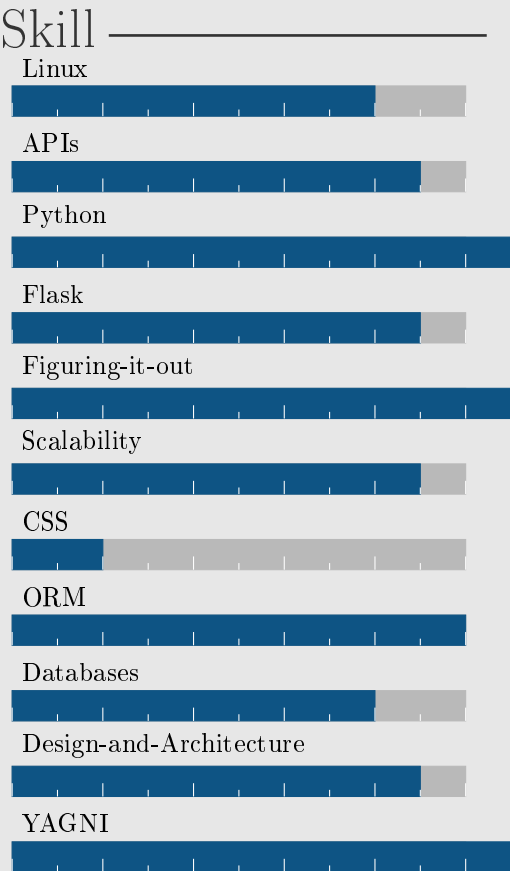


# Michael Horvath

Back End Developer

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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.



(\*)[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 anomalies 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 design, 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, Anomaly Detection

General Program evaluation, technical liaison, presentation and public speaking, business intelligence, requirements gathering, data visualization, data wrangling, project management, Kanban, Jira, DevOps.