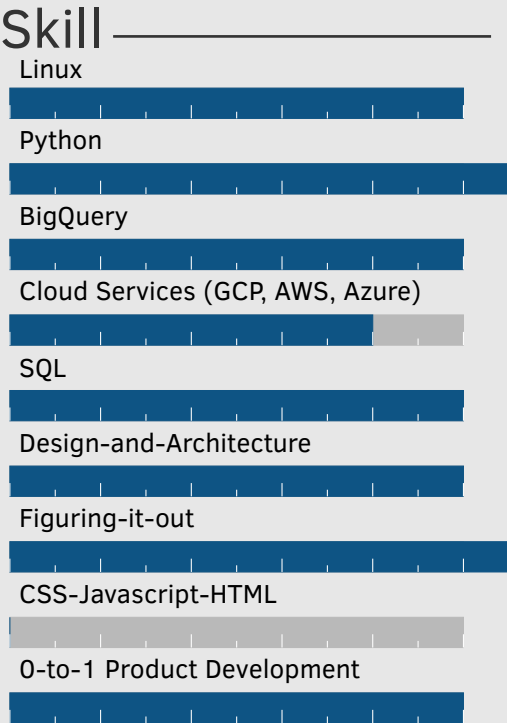




Michael Horvath

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About me
Originally from Kansas, Michael has lived in eight states and three 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).]

mototo

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

Year	Position	Company
2023	Senior Software Engineer	SevenRooms
	- Led SPIKE discovery and solutions engineering. - Researched and designed dimensional model to improve query times by up to 5000x and reduce BigQuery costs by \$180,000/year. - General query optimization in BigQuery, Looker, and PostgreSQL.	
2022	Software Engineer	Maxar Technologies
	- Tracked Russian Yachts and other illicit maritime activities via satellite imagery, KSAT and AIS data in a distributed microservices architecture. - AWS lambda functions, cloud deployment, and site-reliability engineering via infrastructure-as-code (IaC).	
2020	Senior Software Engineer	Fluxergy
	- Led Data and Algorithms team. - Created computer-vision based tri-phasic PCR analysis algorithm with 99.5 percent accuracy rating.	
2018	Software Engineer	Fluxergy
	- Local and cloud application development for clinical and manufacturing process capture, built to spec with ISO 13485 traceability requirements, along with applicable real-time data exhaust.	
2017	Machine Learning Engineer	Embrace Healthwear
	- Signal processing, feature selection, data vectorization, model selection for high-frequency ML classification problems.	
2012	Carpenter	Benchmark Construction
	- Swinging a hammer and singing Fleet Foxes.	
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

Category	Skills
Technical	Python, Flask, Sanic, BigQuery, MySQL, Docker, LaTeX, docker-compose, Git, Database design, Elasticsearch and Kibana, Looker, PowerBI, CI/CD, Infrastructure as code, Google, Microsoft Office, Excel, Statistics, Structural Equation Modeling, ANOVA, MANOVA, Multiple Regression, Machine Learning, PyTorch, Pandas, Numpy, SciPy, GCP, Google Cloud Compute, Azure, AWS, Lambda functions, Cloud 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.