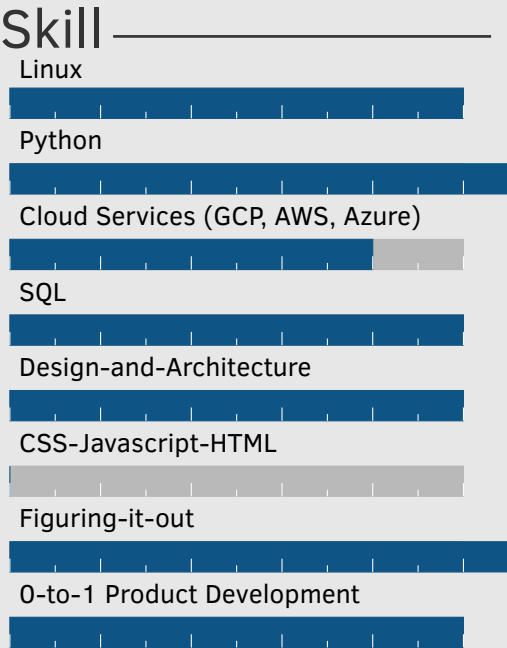




Michael Horvath

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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 eight 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
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

- 2023 Senior Software Engineer SevenRooms
- SPIKE discovery and solutions engineering for high-throughput realtime streaming applications.
- BigQuery, Looker, Kafka, Datastore and ORMs for datawarehouse tuning and optimization.
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, developing computer-vision based diagnostic algorithms, both ML-based and analytic.
- Data warehousing, CI/CD pipelines, full-stack development and embedded systems development/testing.
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

- Technical Python, C++, BigQuery, MySQL, PostgreSQL, 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.