

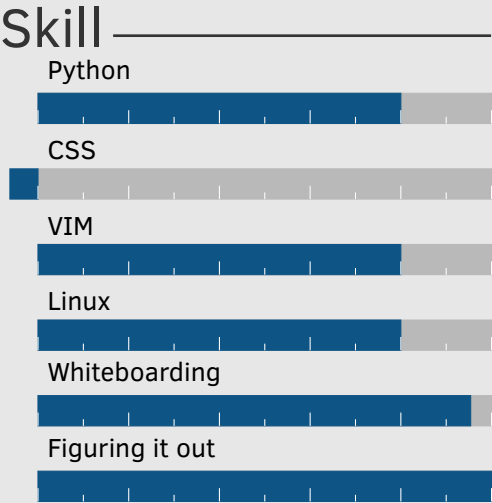


Michael

Backend Software Developer

12 December 1987
 California
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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. Michael is looking for remote opportunities that allow him to continue travelling.



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

beliefs

Continual growth is key to enjoyment of life; challenge begets growth.
Passion is a must.
Software = Poetry + Math

education

2006-2011	B.A. cum laude Psychology and Statistics	University of Kansas
2002-2006	High school, 4.0 GPA Extras: Diving, Soccer, Choir, Science Olympics	Shawnee Mission East HS

awards

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

experience

February 2022	Software Engineer	Maxar Technologies
<ul style="list-style-type: none">- Back-end development in Sanic micro-service architecture system. Refactoring for modularity and readability.- Functional and unit testing.		
2021 - 2022	Lead Data Scientist	Fluxergy
<ul style="list-style-type: none">- Design, development, testing and release of real-time quantitative diagnostic algorithms for PCR and lateral flow tests.- Study design, program evaluation, and data sampling.		
2020 - 2021	Algorithms Engineer	Fluxergy
<ul style="list-style-type: none">- Redesigned primary image-based PCR analysis algorithm, through all phases of QMS software development lifecycle.- Designed, connected, and commodified business intelligence pipelines across departments. Created real-time interactive dashboards and BI reports.		
2018 - 2020	Software Engineer	Fluxergy
<ul style="list-style-type: none">- Designed, developed, and maintained data-centric internal applications, run in docker-ized cloud environments.- Custom report generation for automatic recurring, user-built reports, with plugins for BI integration.		
2017 - 2018	Software Engineer	Embrace Healthwear
<ul style="list-style-type: none">- Data preprocessing, pipelining and analysis of motion-sensor high-frequency time-series data.		
2015 - 2022	Personal Projects	
<ul style="list-style-type: none">- Neural net generator for exploring node generation, tuning and lifecycle of basic machine learning processes in Elixir.		
<ul style="list-style-type: none">- High frequency trading algorithm development and back-testing.		

skills

2018-2022	Python, Django, Flask, Sanic, PHP, MySQL, Docker, LaTeX, docker-compose, Git, Cloud resources (Azure and AWS), Database design, Elasticsearch and Kibana, PowerBI, Javascript/HTML/CSS, CI/CD, Infrastructure as code
2010-2020	Program evaluation, technical liaison, public speaking, regression analysis, ANOVA, MANOVA, optimization, structural equation modeling, business intelligence.