



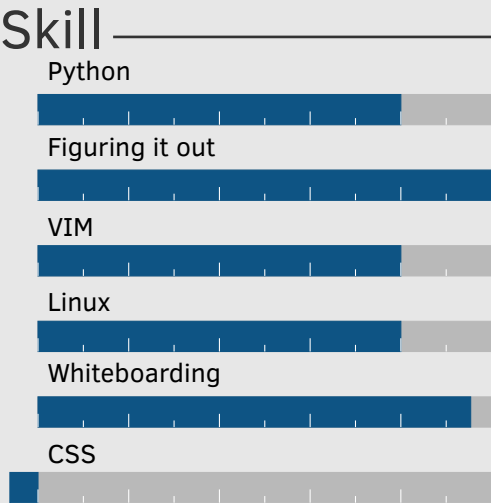
Michael

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.



(*)[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 Shawnee Mission East HS
Extras: Diving, Soccer, Choir, Science Olympics

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
- Back-end development in Sanic micro-service architecture system. Refactoring for modularity and readability. - Functional and unit testing.
- 2021 - 2022 Lead Data Scientist Fluxergy
- 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
- 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
- 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
Data preprocessing, pipelining and analysis of motion-sensor high-frequency time-series data.
- 2015 - 2022 Personal Projects
- Neural net generator for exploring node generation, tuning and lifecycle of basic machine learning processes in Elixir. - 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.