



# Michael

Backend Software Developer



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California



949-228-0695



michaelhorvath87@gmail.com

## About me

Originally from Kansas, Michael has lived in eight states and two countries. Michael enjoys climbing, running trails then napping, howling with his guitar, and anything else he can do outdoors. He's been coding for about five years now, but he's been exploring since the day he could walk – perhaps even earlier.

## Skill

Python



VIM



Whiteboarding



Unix



Figuring it out



Stats



(\*)[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	Math Olympics State Champion, Pennsylvania Assoc. of Private Schools
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2000	Math Olympics State Champion, Pennsylvania Assoc. of Private Schools
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

2018 - Now	Software Engineer	Fluxergy, LLC
	<ul style="list-style-type: none"><li>- Cloud-based automatic upload, processing, and report generation of clinical test output. (Django and MySQL).</li><li>- Platform for creation, tracking, and real-time display of manufacturing floor processes. (Flask and PostGRES).</li><li>- Implemented R&amp;D computer vision solutions to ISO 13485 standards. (Python, c++, NumPy, openCV).</li><li>- Real-time monitoring and processing of time-series data and production metrics. (PowerBI, ELK).</li><li>- Study planning and execution to pass ISO 13485 regression validation requirements.</li></ul>	
2017 - 2018	Software Engineer	Embrace Healthwear, LLC
	Developed activity classification models with biometric data to map physical therapy research to procedural findings.	
2016 - 2017	Personal Project	Elixir/Machine Learning
	Built a neural net constructor in Elixir, in order to better understand the fundamentals of machine learning.	

## skills

2018-2020	Python, Django, Flask, PHP, MySQL, PostGRES, Docker, LaTeX, docker-compose, Git, Cloud resources (Azure and AWS), Database design, Elasticsearch/Kibana, PowerBI, c++, TensorFlow, R, LISREL
2010-2020	Program evaluation, technical liaison, public speaking, regression analysis, ANOVA, MANOVA, optimization, structural equation modeling, business intelligence

## other information

Michael used to work in construction and property management. He's found some odd overlap between his previous career and his current one, mostly in visualizing interdependent systems and the value of elbow grease (not to mention the horror of opening up someone else's beloved home to find that the whole thing is tied together with (more or less) strings). He'd love to find a home where he can continue to grow and be challenged by exciting new projects on a regular basis.