



MICHAEL N. CALLAHAN – SOFTWARE ENGINEER

NARRATIVE

Michael joined the Pyrologix team as a Software Engineer in 2021 after close to three years writing software for analytical chemists. Before that he worked for the Forest Service in Montana on an IA module then later a Hotshot Crew. His software development experience is in cloud computing, and application development. Michael earned his BS in Management Information Systems from the University of Montana.

ACCOMPLISHMENTS

- Lead role in technical development of WildEST and landscape ember modeling.
- Increased computing and processing abilities of Pyrologix's fire modeling algorithms through distributed systems
- Lead role on a scalable, cloud processing and analysis tool for analytical chemists, specifically Mass Spectrometerists.
- Author and maintainer of Hydra, an open-source tool for fast run-to-run feature correspondence of Mass Spectrometry data written in C++.
- Engineered robust and easy-to-use REST APIs to allow programmatic access to user information and data on a Ruby on Rails API, and on the AWS ecosystem.

WORK HISTORY

Software Engineer, Pyrologix LLC, Missoula, Montana.
2021 to present

Software Engineer, Prime Labs, Missoula, MT.
2018 – 2021

Partner, Co-Owner, Bashoor Land Management, Missoula, Montana
October 2016-April 2018

Wildland Firefighter, US Forest Service, Darby, MT.
2016

Wildland Firefighter, US Forest Service, Philipsburg, MT.
2013-15

EDUCATION

Post Baccalaureate Education 2017-2018	Computer Science	University of Montana
B.S. 2013	Business Administration	University of Montana

TOOLS & TECH

Languages	C++	Python	Ruby	Javascript	HTML	SQL
	Java	R	CSS			
Frontend	React	Redux	Vue 2 and 3	Nuxt	React Native	Redux-Sagas
	Linux/OSX					
Backend	Ruby on Rails					
Database	Postgres	Redis	SQLite			
AWS	EC2	S3	RDS	Lambda	EB	
Misc.	Docker	Heroku	Sidekiq			