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Ann Arbor, MI

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Résumé of

Wolf

How I Fit In

A generalist with a broad background, I am a top-notch software engineer, documentor, architect, implementor, debugger, and an excellent resource for the rest of the team. My wide range of experience allows me to jump into any situation and become productive immediately. I can travel, work on-site or remotely; join or lead a team, or work alone. I am also an experienced public speaker with a love (and a talent) for teaching.

My "Why"

I feel purpose most in raising up the people around me by helping them, teaching them, and by advertising their accomplishments. I feel purpose in being useful in the situation and getting my job done. I define success as the success of the team around me, if I have done my job, been useful, and raised up members of the the team. I value integrity, kindness, honesty, usefulness, and learning (both for me and for others). I am a life-long learner.

Technical Skills

I am expert in Python, my JavaScript is strong but I have not been focused on it recently, and I'm an able programmer in PHP. Some time ago I was an expert in C++, but I could probably still write code in it (or almost anything else) given a little preparation and an open book. I have a great deal of experience with MySQL, and am reasonably proficient in SQLite and have experience using MongoDB. I am a full-stack developer, well equipped to deal with both the front-end and the back-end. I have recently been playing with Django and I have some Flask and FastAPI under my belt. I did work in Angular, and I'm looking forward to working with React. I am at home on Linux, Mac, or Windows, and have been writing cross-platform code since 1991. I can live happily with the IDE du jour or with nothing but the command line. I am an algorithms guy with experience in web services, communication, and networking protocols; encryption/authentication; search; compression; text systems; database engines; build system machinery; various application frameworks; and making things go faster.

I have distinguished myself as a public speaker, technical evangelist, and educator. I am a receptive and persuasive communicator, both face to face and in lower-bandwidth settings, including technical writing and email. I have extensive experience in Open Source and distributed development.

Links

- [my GitHub page](#)
- [my Blog](#)
- [some of my Python](#)
- [some of my JavaScript](#)
- [some of my Bash scripting](#)
- [an interesting data structure I implemented in Go](#)
- [some of my Perl](#)
- Some videos of presentations I've done:
  - [modern shell tools](#)
  - [tmux](#)
  - [regular expressions](#) ([the notebook from that presentation](#))
  - [how Git stores objects](#)
  - [Vim](#)
- [my StackOverflow page](#)

- [some of my C++ from Mozilla](#)

Recent Experience

Dec 2022 - Feb 2024   [Genomenon](#)   Senior Software Engineer

At Genomonen I wrote back-end code in Python and a little in Go. I used Docker extensively; worked with AWS SQS and S3, and LocalStack to simulate them; plus Terraform to manage it all. Genomenon is a genomic intelligence company which means the core of its offerings are data related and service related. The data half focused on a complicated pipeline that made scientific papers referencing genes and variants available in Elasticsearch. We used PostgreSQL along with Elasticsearch and a variety of languages: JavaScript, Go, Python, and Ruby.

The service half of the business involved human curation of genes and variants. The dev team also wrote tools to help them do their jobs.

Sep 2014 - Nov 2022   [Learning A-Z](#)   Principal Software Engineer

At LAZ, I was a full-stack application developer building literacy tools for K-6 students. I worked in PHP and JavaScript with deep use of MySQL. I worked on the mobile team writing back-end code, and focusing on our latest writing program. That means I was almost entirely PHP-focused for that work. Initially, I spent time doing DevOps-related tasks such as researching CDNs and implementing our use of one; implementing an additional code staging area (known as postprod); researching, setting up, and initially managing an on-prem Git hosting facility (GitLab); and converting a large code-base and equally large development team from CVS to Git. As the team's Git expert, I did both regular training on the available tools, and one-on-one problem solving with indvidual developers.

On the non-coding side, I ran our annual intern program: "mentoring the mentors" and handling issues outside the scope of an individual mentor. I also ran our twice-yearly engineering Hack-a-thon.

mid 2011 - early 2014   Arbor Networks   Senior Software Engineer

I worked on network analysis tools, written in Python, that examined and filtered the flow of IP packets across the cell network. Arbor Networks is now NetScout.

References

Furnished upon request.