Wolf's Résumé

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Résumé of Wolf

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How I Fit In

A generalist with a broad background, I am a top-notch software engineer, documenter, architect, implementer, 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 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 having used it since 1998. That is my current primary language. In Python, I am a heavy user of Qt, Pandas, and geometry (and the corresponding PostGIS tools in Postgres). My JavaScript/TypeScript and my PHP are all strong but I have not been focused on any of them recently. I am currently learning Rust (some samples linked below). 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 am good at a lot of things, but I am an authority in Python and Git.

In databases, I have several years of recent PostgreSQL experience, more than a decade of MySQL, am reasonably proficient in SQLite, and have some experience using MongoDB. I have written plenty or command-line scripts, cross-platform apps, typically using Qt, and apps native to macOS. I'm a Bash expert, which means on Windows I gravitate towards Git Bash for Windows, and WSL2 rather than cmd.exe. With respect to the web, I am a full-stack developer, well equipped to deal with both the front-end and the back-end. 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 (where my favorites are PyCharm, RustRover, and for other languages IntelliJ) or with nothing but the command line (where I have used many editors, but mostly use and have a great deal of skill and experience with Vim/NeoVim). I have recently been working with Cloud services, mostly AWS. I wouldn't call myself an expert yet, but I'm working on it.

I am an algorithms guy with experience in programming languages and scripting; applications (both native and cross-platform); web interfaces and implementations; encryption/authentication; search; compression; text systems; database use; 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

- some of my Python

- some of my Rust (I'm not nearly an expert yet)

- some of my JavaScript

- some of my Bash scripting

- an interesting data structure I implemented in Go

- some of my Perl

- yes, I could write Racket if someone held a gun to my head, but I couldn't promise it would be good

- 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/Firefox
  - nsCOMPtr.h
  - nsCOMPtr.cpp

Recent Experience

Apr 2024 - current Senior Software Engineer Dynamic Map Platform

At DMP I write Qt apps in Python using PostgreSQL, PostGIS, Pandas, and several AWS services. These apps are used internally by experts in building highly precise maps.

Dec 2022 - Feb 2024 Senior Software Engineer Genomenon

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 Principal Software Engineer Learning A-Z

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 (settling on AWS Cloudfront); 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 individual 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. I love coding, but mentoring and the hack-a-thon both gave me a lot of pleasure and satisfaction.

mid 2011 - early 2014 Senior Software Engineer Arbor Networks

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.