Christopher French

Kansas City, MO -- (Open to remote work or relocation)

LinkedIn

Summary:

Full-stack developer with an emphasis on automation, data engineering, and analytics using Python and Node. Worked in several industries -- GIS, logistics, medical insurance -- at companies like Microsoft, Esri, and C.H. Robinson. Experience with building back-end systems in the cloud (Azure, AWS, Spark, Glue) and front-end design (React/Gatsby/Next.js). Created and maintained microservices and pipelines.

Enjoys to program and build systems, is understanding, always willing to listen to ideas, and enjoys working with a team of likewise individuals.

Expertise:

- ● **Data Engineering:** Python, SQL, ETL jobs using Airflow and cron jobs in linux, cloud, and Docker environments, data mungering and processing

- ● **Full Stack Developer:** Flask, FastAPI, Django, Blazer/.NET Framework, PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, React, Gatsby

- ● **Cloud & Automation:** Azure, AWS, Vault, Linux, CI/CD pipelines, Batch scripting, Kafka

- ● **Machine Learning:** Foundations of statistics, data analysis using NumPy/Pandas, data visualization, ChatGPT and tools like scipy

- ● **Technical Writing:** Static-site generation, Markdown, XML, photo-editing, creating data pipelines to build documentation, writing developer guides and code samples

- ● **Tools:** Git, CMake/Scons, Linux, Docker, Unreal Engine 4/5, Godot, Visual Studio

Primary Programming Languages:

- ● **Scripting:** Python, Node/Typescript, Bash
- ● **APIs:** Python, Node, C#/.NET Framework
- ● **Web:** JS/TypeScript, Python, CSS, HTML, JSX, HTML-templating (e.g. Nunjucks, Jinja2)
- ● **Systems:** C, modern C++ (17), C#, Rust
- ● **Misc:** GDScript, LaTeX, OCaml, NetLogo, R

Professional Experience

Python Developer - *C.H. Robinson (Freight Quote, Contractor), Kansas City, MO*

July 2023 - Current

- ● Built and designed a new company-wide CRM app for sales representatives in Typescript and FastAPI, with a PostgreSQL backend -- hosted in Azure (Backstage/Helm/Terraform)
- ● Maintained React websites in React with Django as the backend
- ● Maintained services running in VMs using Docker
- ● APIs maintained and updated using FastAPI and PosgreSQL

Machine Learning Engineer I - *Spring Venture Group, Kansas City, MO*

Feb 2022 - Mar 2023

- ● Leveraged AWS for the development of microservices with FastAPI/Flask.
- ● Utilized AWS services including Batch, ECS, Airflow, RDS (MySQL), Redis, Redshift (Postgres), Lambdas, and AWS CDK to create analytics pipelines and lead ingestion.
- ● Instrumented and logged data using Splunk and Datadog.
- ● Worked collaboratively with data scientists to integrate business logic with ML models.

Data Engineer II - *Spring Venture Group, Kansas City, MO*

Sep 2020 - Feb 2022

- ● Crafted ETL jobs in Python using AWS Batch, PySpark, and Airflow.
- ● Authored and optimized SQL queries, interfacing with AWS RDS and Redshift databases.
- ● Programmed AWS Glue jobs and created Glue tables for querying in Athena.

GIS Analyst - *AmeriCorps Vista, Kansas City, KS*

May 2020 - Sep 2020

- ● Authored GIS ETL tasks in Python using ArcGIS Pro and geopandas/PostGIS.

Product Engineer & Technical Writer - *Esri, Portland, OR*

Jan 2019 - Jan 2020

- ● Planned and wrote developer documentation for a new REST API-based PaaS.
- ● Developed documentation automation tools in Node, wrote developer guides and tutorials.

Technical Writer, Programmer - *Microsoft (via Pactera), Bellevue, WA*

Jun 2018 - Dec 2018

- ● Migrated documentation from MSDN to Microsoft Docs using Markdown and OpenAPI specs.
- ● Authored code samples in C# and HTML/JS, maintained the Bing Maps .NET SDK Toolkit.

Data Analyst and Programmer - *Pactera, Redmond, WA*

Mar 2017 - Dec 2018

- ● Developed analytics, billing, and judge quality control tools in Python and .NET (C#/WPF).

Tutor - *Huntington Learning Center, Bellevue, WA*

Apr 2017 - Nov 2017

- ● Tutored students for the ACT and SAT, as well as AP Computer Science and Calculus.

Contributing Editor - *Gumstix, Inc., Vancouver, BC*

Jan 2016 - Aug 2016

- ● Authored content using WordPress, JS, Bootstrap, and HTML/CSS.