

# Chris Dempewolf

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## Experience

### Stay-at-Home Father, Fort Smith, Arkansas

2023 — present

- Dedicated full-time to family while continuing to grow as a software engineer through study and independent projects
- Developed a custom static blogging platform using Laravel for content management and wget to generate static snapshots
- Passed AWS Associate Developer exam (December 2023)
- Hosted [blog](#) on AWS S3 using CloudFront as a CDN
- Automated site builds and uploads to S3/CloudFront with a CI/CD pipeline built in GitHub Actions
- Created an AWS Lambda function that runs off S3 events to invalidate files in CloudFront
- Created database migrations to streamline data handling for site content
- Made another CI/CD pipeline with GitHub Actions that runs weekly and uses GoAccess to parse my CloudFront logs and build a [server stats page](#) for my blog
- Built a Python [add-on for Anki](#), a spaced-repetition software, enabling seamless Markdown input for card creation

### Octimine/Dennemeyer, Munich, Germany — Senior Data Engineer

2021 — 2022

- Replaced weekly batch job with real-time data processing pipeline in Apache Kafka, allowing incoming data to be processed immediately rather than waiting for weekly job
- Improved company culture by opening up chats and adding/organizing documentation
- Automated manual processes, adding them to GitLab CICD
- Created peer-reviewed method for updating Elasticsearch mappings reducing conflicts and development time
- Implemented new patent analytics, helping customers determine the value of a patent

### SimplyMeasured/Sprout Social, Seattle, WA — Software Engineer II

2015 — 2018

- Centralized auth, rate limiting, and request transforms via Kong API gateway, reducing the complexity of our microservices backend
- Designed and implemented HBase map/reduce jobs to generate new metrics for social media posts and accounts
- Drove new sales by integrating data sources for Instagram and Pinterest APIs
- Resolved data discrepancies with customers in HBase, Elasticsearch, customer-facing API, and web app
- Set up CICD for microservices in AWS using Chef and Jenkins

## **DataRank, Fayetteville, AR — Software Engineer**

2013 — 2015

- Architected, built, and deployed company data ingestion, allowing us to process, normalize, and store data from external APIs and websites into a canonical model
- Onboarded and mentored two junior developers to help with data ingestion
- Cut development costs for new data sources by generically handling API rate limiting, token pools, and persistence
- Persisted thousands of comments per second from Twitter, Facebook, Instagram to HBase
- Wrote scalable crawling framework to gather data from review sites and forums

## **Streamix, Fayetteville, AR — Web Development Intern**

2012 — 2013

- Developed a DJ web app using an in-house PHP MVC framework

## **Walmart, Bentonville, AR — Information Systems Intern**

2012

- Improved Walmart internal tooling using Hibernate, Spring, and JBoss

## **Other Work Experience**

### **Mexico — Freelance English Teacher**

2020 — 2021

- Taught English to impoverished children and mentored teachers on student-centric learning

### **Ozark Literacy Council, Fayetteville, AR — Volunteer English Teacher**

2019 — 2020

- Employed goal-setting, SMART objectives, and other learning techniques to teach English to international students

## **Skills**

### **Languages**

Java, Kotlin, Python, PHP, SQL, bash, Awk, sed, HTML/CSS, Ruby, Javascript

### **Tools**

ElasticSearch, PostGres, MySQL, Kafka, Spring/Spring Boot, Laravel, Hibernate/JPA, AWS, S3, Docker, Maven, IntelliJ, Git, Vim, Emacs, static site generators, Swagger, Jenkins, Ansible

# Projects

## [Java/Kotlin SDK for Pinterest API](#)

First publicly available Java SDK for Pinterest API. Released on [Maven Central](#)

## [One dimensional, 8 bit cellular automata](#)

256 one dimensional cellular automata demonstrate how complex behaviour arises from simple rules

# Education

## **Spring International Language Center, University of Arkansas, Fayetteville**

TEFL (Teaching English as a Foreign Language) Certification

## **University of Arkansas, Fayetteville**

B.S., Computer Science, Cum Laude, GPA 3.5

# Publications

## **Identification of Consensus Glycosaminoglycan Binding Strings in Proteins**

Lead author of paper [published in IEEE](#) determining a protein's feasibility of binding to heparin