Chris Dempewolf

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Experience

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
- Created map/reduce jobs to process comments in HBase, providing new metrics for social media posts
- 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

Custom static blog

My blog is a static site, though I made it using PHP/Laravel. More info about the how and why can be found here. Hosted on AWS S3.

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