Chris Dempewolf

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Experience

Dempewolf LLC, Remote — Founder & Software Engineer

2023 — present

- Founded software development company focused on educational mobile apps
- Launched "Athena Math," a cross-platform mental math app built in React Native/TypeScript
- Managed end-to-end software lifecycle—frontend, backend, deployment, marketing strategies
- Gained experience in React Native, TypeScript, cross-platform mobile app development

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 numerous manual processes by adding them to GitLab CICD, steamlining app maintenance
- Designed peer-reviewed CI/CD pipeline for ElasticSearch schema updates, improving developer collaboration, reducing conflicts, and enabling faster, safer deployments
- Implemented new patent analytics, helping customers determine the value of a patent

English Teacher, Mexico & US

2018 — 2021

- Taught English to impoverished children in Mexico, and mentored teachers on student-centric learning, goal-setting, and SMART objectives
- Balanced teaching with ongoing study and independent software development efforts

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
- Integrated Instagram and Pinterest APIs, enriching dashboard used by over 20 sales reps

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

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

Certifications

- **AWS Certified Developer – Associate** — 2024

Skills

- **Languages**: Java, Kotlin, Python, Javascript, TypeScript, PHP, SQL, bash, Awk, sed, HTML/CSS, Ruby
- **Frameworks/Technologies**: Spring Boot, Hibernate/JPA, Laravel, React Native, AWS, Kafka, GitLab CI/CD, GitHub Actions, S3, Docker, Maven, IntelliJ, Git, Vim, Emacs, static site generators, Swagger, Jenkins, Ansible
- **Databases**: PostgreSQL, ElasticSearch, SQLite, DynamoDB, MySQL, HBase, Redis

Projects

- **Static Blogging Platform**: Custom blogging system with Laravel, CI/CD automation (GitHub Actions), hosted on AWS (CloudFront, S3, Lambda)
- **Java/Kotlin SDK for Pinterest API**: First publicly available Java SDK for Pinterest API. Released on Maven Central
- **Markdown Add-on for Anki**: Open-source Python-based add-on enabling seamless Markdown input for Anki flashcards
- **One dimensional, 8 bit cellular automata**: Visualizations of 256 one-dimensional, 8-bit cellular automata demonstrate emergent complexity from simple rule sets

Education

- **University of Arkansas, Fayetteville**: B.S., Computer Science, Cum Laude — 2013

Publications

- **Identification of Consensus Glycosaminoglycan Binding Strings in Proteins**: Lead author of IEEE paper determining a protein's feasibility of binding to heparin — 2013