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I'm a full stack software engineer with expertise in JavaScript, Ruby, and TypeScript. I combine my computational chemistry knowledge with my software engineering skills to design efficient, maintainable solutions that solve complex technical challenges.

Experience

Creator & Software Engineer, Unilogs 01/2025 – present

Architected Unilogs ✎ an open-source, cloud-native log observability platform for distributed applications.

- **Automated a complex 15+ step deployment process** into a single command that deploys the Unilogs platform to AWS cloud infrastructure (handling the configuration of: EKS, CloudFormation, EC2 instances, and IAM roles).
- Built a CLI tool to deploy a Dockerized log shipper application, dynamically configuring the shipper according to the end user's specified log format.
- Implemented custom log transformation capabilities with **container recovery mechanisms**, ensuring system resilience during deployment failures (TypeScript, Node.js)
- Designed and orchestrated a Kubernetes cluster to horizontally and vertically scale the logging pipeline, enabling it to handle up to **4 TB of log data per day**.
- Implemented secure TLS connectivity between the cloud platform and log shippers using AWS SDK for Kafka broker certificate retrieval, ensuring data security during log transmission.
- Resolved Kubernetes service permissions according to AWS IAM user specifications so that the log aggregator could write to S3 buckets for long-term storage.
- Deployed a three-broker Kafka streaming platform with replicated partitions, **increasing throughput and eliminating a single point of failure**.
- Authored an in-depth case study: unilogs.github.io/ ✎

Software Engineer, Open-Source Projects 2023 – 2025

- **Spokes** - A webhook request debugger and inspector powered by: React, Express, Node.js, PostgreSQL and MongoDB.
- **Lord of the RAG** - A full-stack Retrieval-Augmented Generation (RAG) application that enables the user to query and receive context-aware answers from The Silmarillion (JRR Tolkien's mythological novel).

Quality Control & Production Associate, SOFIE Biosciences, Inc. 2022 – 2023 | Somerset, New Jersey

- Coordinated the investigation of process deviations and out-of-specification results for root cause analysis.

Education

Master's of Science in Computational Chemistry & Bachelor's in 2018 – 2022

Chemistry, University of Nottingham

Nottinghamshire, United Kingdom

- Developed Python/Bash scripts to assess the accuracy of a less robust algorithm compared to a DFT model.

Skills

Cloud

AWS (EKS, S3, EC2, Lambda, IAM, CloudFormation, CDK), Digital Ocean, Fly.io, Heroku

Frameworks & Languages

TypeScript, JavaScript (ES6), Ruby, React, Sinatra, jQuery, HTML/CSS, bash

Other

PostgreSQL, MongoDB, Kafka, Docker, Kubernetes, Node.js, Git/Github, RESTful APIs, OOP, Linux/Unix