

Clive Holloway

Senior Developer / Backend Systems Architect

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I am a UK and US citizen, and am open to opportunities in either country

SUMMARY

Senior developer/architect with over 20 years experience building scalable back-end systems in multiple industries including healthcare, telecom and retail. Skilled in modernizing and migrating legacy Perl apps, SQL performance tuning, and implementing best practices in test coverage, architecture, and documentation across the full development life-cycle, including architecture design, back-end development, legacy code refactoring, unit testing and coverage expansion, technical writing & mentoring, UI prototyping, and business analysis.

PROFESSIONAL EXPERIENCE

The Hollow Way Inc (C2C contract work as a Senior Perl Developer/Architect) *Aug 2021 - present*

- Designed and built a Plack microservices framework to integrate with existing mod_perl monolith
- Created Domain Specific Language (DSL) for the observability layer in a legacy Perl monolith app
- Migrated legacy observability code to new DSL
- Created tutorials and documentation for developers and performed mentoring as needed
- Managed rollout of observability code to other teams

ZipRecruiter - Software Engineer III *Mar 2017 - July 2021*

- MySQL (Aurora) database optimization and normalization - migrated phone number data from a free form text field to an indexed field in E164 format, making phone number searches 1000s of times faster than they were
- Elasticsearch - full index design and implementation, including phonetic search, with a streaming ETL pipeline from MySQL via Kafka. Designed so that support reps can easily find customers quickly
- Wrote lots of documentation for features I've created, and helped fill in gaps for other projects as I found them
- Ongoing maintenance and development of existing Catalyst + DBIx::Class + Template::Toolkit application

Humana - Perl Developer *Apr 2014 - Feb 2017*

- Implemented Continuous Integration (CI) using Jenkins, and built out a core test framework with sample tests for existing code
- Encouraged colleagues to embrace test driven development as part of a CI plan to

- improve the quality of future code changes
- Migrated a mod_perl application from Apache 1.3 / mod_perl to Apache 2.4 / mod_perl2
- Created a new suite of management tools to automate and manage RCS and SCM across a range of machines and environments for the core application
- Prototyped ORM (DBIx::Class) and Moose code as the beginnings of a code modernization push.

Independent Contractor

Jan 2007 - Dec 2013

Lead Developer (Systems) - Ipower, Phoenix, AZ

Oct 2002 - Jan 2007

EDUCATION

Pure Mathematics B.Sc. - University of London

TECHNICAL SKILLS

Languages: Perl (Plack, Catalyst, Dancer, Mojolicious, mod_perl), SQL, Javascript (Node.js, jQuery, TypeScript), Python

Databases: MySQL (Aurora), sqlite3, Postgres, and Oracle

Frameworks and tooling: DBIx::Class, Template Toolkit, Elasticsearch, Kafka, Debezium, REST APIs, Elasticsearch, XMPP (Djabberd), poetry, Jekyll

Servers: Apache, Nginx, Starman

Cloud/Infra: AWS, Kubernetes, Docker, terraform|

AI: ChatGPT – deep dive self learning, code optimization, vibe coding in unfamiliar languages, Cursor AI

Other: Git, Subversion, CVS, SSH, Github & CI/CD in general, Agile, Waterfall, TDD, general Linux

CODE SAMPLES

Most work is proprietary and not public, but I have a couple of project I am working on on GitHub:

- improve Perl unit testing: https://github.com/cliveholloway/perl_simplemock
- manipulate assets for a web site: <https://github.com/cliveholloway/herbert>

CASE STUDIES & REFERENCES

See how I have approached different projects and what team members have thought of my work.

<https://cliveholloway.net/2025/>