

Rhydian Jenkins

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Profile

Software Engineer with experience of delivering and maintaining production systems across web, cloud, and distributed environments. Background in full-stack development, system design, and operationally robust services.

Experienced working across multiple languages and paradigms, with a focus on building maintainable, well-tested software and improving existing systems over time. Holds a PhD in Computer Science with a foundation in systems, concurrency, and problem-solving at scale.

Core Skills

- **Software Engineering:** System design, API design, modular architectures, refactoring legacy systems, code review
- **Backend & Systems:** PHP (Symfony), Go, RESTful APIs, service-oriented architectures
- **Frontend:** React (TypeScript), RTL, Redux, and other modern web tooling
- **DevOps & Cloud:** Docker, Kubernetes, GCP, AWS
- **Testing & Quality:** PHPUnit, Jest, RTL, Mocha, integration and functional testing
- **Tooling:** Git, Nix/Nixpkgs, Composer, npm, Make
- **Communication:** Technical documentation, presentations, cross-team collaboration

Experience

BaseKit 2022–Present	Full Stack Developer Developer on a large white-label website builder platform, supporting e-commerce, bookings, and customer management functionality within a complex monorepo. Responsibilities & Contributions: <ul style="list-style-type: none">• Delivered features across frontend and backend systems used by a large customer base• Developed and maintained React (TypeScript) applications with comprehensive automated testing• Built and evolved Symfony-based backend services and REST APIs• Worked extensively on large legacy codebases (Silex, Backbone.js), improving stability and maintainability• Contributed to improving test coverage and release confidence through functional and integration testing• Collaborated closely with product, QA, and platform teams throughout the development lifecycle
WCBS 2021–2022	Full Stack Developer Member of an agile, remote-first team building a cloud-native MIS platform for schools. Responsibilities & Contributions: <ul style="list-style-type: none">• Developed Vue 3 (TypeScript) frontends and Symfony-based REST APIs• Contributed to CI/CD pipelines and deployment workflows• Worked with Docker and Kubernetes in a GCP-hosted environment• Participated in code reviews and architectural discussions• Helped maintain code quality through automated testing and peer review

**Aberystwyth
University**
2017–2021

University Tutor (Computer Science)

Provided academic instruction and support alongside PhD research.

Responsibilities:

- Delivered lectures, workshops, and tutorials
- Supported students with software development and problem-solving
- Assessed coursework and provided detailed feedback

**Lexis Nexis
Risk
Solutions**
2016

Software Engineer

Worked within an Agile team delivering enterprise software in a regulated environment.

Responsibilities:

- Developed backend services using Zend Framework
- Contributed to CI pipelines via Jenkins
- Participated in code reviews and maintained testing standards

Education

**Aberystwyth
University**

PhD — Topological Mapping with Swarm Robotics

Research into distributed, multi-agent systems and robotic mapping.

Highlights:

- Designed and implemented simulators and ROS modules
- Developed systems in C++, Java, and Python
- Worked extensively with concurrency, coordination, and correctness

**Aberystwyth
University**

BSc Computer Science

Key Areas:

- Software engineering principles
- Systems programming (C/C++)
- Web technologies and human-computer interaction
- Agile development methodologies

Additional

- Contributor to **Nixpkgs**
- Experience using ROS in simulated and real-world robotics environments
- Strong interest in software correctness, performance, and reliability
- Full UK driving licence