

Rhydian Jenkins

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Personal Profile

Computer Science PhD and Software Engineer with a strong track record of delivering high-quality software. Experienced across multiple languages, technologies, and development environments. A collaborative problem-solver who works effectively both independently and within teams, with a strong commitment to continuous learning and tackling new challenges.

Skills

- DevOps (Docker, Jenkins, Kubernetes, Git, GCP, AWS)
- Front end - Webpack, Vite, Next, Nuxt and SvelteKit
- Back end - Full stack and microkernel Symfony, Laminas, and Laravel
- Package management and build tools (npm, Nix, Composer, Docker-compose, Maven, Make, etc)
- Public speaking while presenting work at various conferences

Experience

BaseKit 2022–present	Full Stack Developer Accountable for developing and maintaining software for a large white label website builder monorepo. My responsibilities included working on various applications such as e-commerce, booking, and customer management solutions, as well as the website builder itself. Responsibilities: <ul style="list-style-type: none">• Develop/maintain modern React.ts applications utilizing MSW, RTL, Redux, and other technologies• Develop/maintain modern PHP backend applications and RESTful APIs using Symfony• Maintain various large legacy applications written using a variety of technologies such as silex and backbone js• Implementing functional testing strategies utilizing Mocha, PHPUnit, Jest, RTL, and other tools
WCBS 2021–2022	Full Stack Developer Part of an agile team working remotely to develop a modern cloud native Management Information System (MIS) solution for a large number of schools. Operated using a broad tech stack, including Vue3, Symfony, and Docker. Responsibilities: <ul style="list-style-type: none">• Develop a Vue.ts frontend and a Symfony RESTful API• Ensuring code quality through Jest/PHPUnit tests and code review• Deploying releases through the various environments• CI/CD through GitHub and Jenkins• DevOps through the GCP, Kubernetes, and Docker• Database and entity management through Doctrine ORM

Aberystwyth University
2017-2021

Lexis Nexis Risk Solutions
2016

University Tutor

Tutored Computer Science university students in a variety of different computer science contexts.

Responsibilities:

- Running workshops, lectures, and tuition groups with undergraduate students
- Hosting advisory sessions to help students through a wide range of problems
- One-to-one teaching
- Grading and supplying feedback to assignments and coursework

PHP Software Engineer

Operated with a team of developers/testers to implement industry quality software through a Zend Framework. Responsible for pushing code to a Jenkins CI server, and ensuring code quality through custom codesniffers and unit/integration tests.

Responsibilities:

- Working in an Agile team delivering user stories through sprints
- Peer reviewing code
- Developing features involving both front-end and back-end aspects

Education

Aberystwyth University

PhD Topological Mapping with Swarm Robotics

Worked on novel solutions for the topological multi-agent SLAM problem, using a swarm of agents to map out an environment. Involved with writing ROS modules to achieve challenging tasks in languages such as C++, Java, and Python.

Responsibilities:

- Developing a simulator for robotic operations
- Innovating novel solutions to the multi-agent SLAM problem
- Communicating advanced and technical work

Aberystwyth University

BSc Computer Science

During the degree, a wide range of technologies were studied which are still utilised today.

Modules:

- Web programming
- Java, C, and C++ programming paradigms
- Software development lifecycle
- Human computer interface and human computer interaction
- Agile methodologies
- Advanced computer graphics

Personal Details

- Contributor to Nixpkgs
- Experience with using ROS to control robots in simulation and real world application.
- Friendly and approachable personality, with confidence to ask questions and collaborate with others.
- Full UK driving licence.