

# Rhydian Jenkins

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## Personal Profile

PhD in Computer Science Software Engineer with a proven track record in software development. Skilled in multiple technologies, languages and environments (TypeScript, PHP, Docker, Lua, Java, Windows, Linux, Containers, Virtual Machines, and shells). Strong teamwork, problem-solving and independent working abilities. Committed to learning and taking on challenges with a positive attitude

## Skills

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

## Experience

<b>BaseKit</b> Apr 2022–present	<b>Full Stack Developer</b> 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. <b>Responsibilities:</b> <ul style="list-style-type: none"><li>• Designing and implementing modern React TypeScript frontend applications utilizing MSW, RTL, Redux, and other technologies</li><li>• Building and maintaining PHP 8.2 backend applications and RESTful APIs using Symfony microkernels</li><li>• Managing and updating various large legacy applications written using a variety of technologies such as silex and backbone.js</li><li>• Implementing functional testing strategies utilizing Mocha, PHPUnit, Jest, RTL, and other tools</li><li>• Researching and developing potential machine learning solutions to enhance the product on a large DIY eCommerce site builder for individual and white label customers. Responsible for maintaining large legacy systems as well as developing new features with the latest standards.</li></ul>
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<b>WCBS</b> Jan 2021–Apr 2022	<b>Full Stack Developer</b> Part of an agile team working remotely to develop a modern cloud native Management Information System (MIS) solution for a number of schools, delivering frequent (2x weekly) releases on high standard product requirements. Operated using a broad tech stack, including Vue2 and Vue3, Symfony, Redis, Kubernetes, Docker, and GitHub.  <b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Develop a Vue.ts app</li> <li>• Develop a RESTful API in Symfony</li> <li>• Ensuring code quality through Jest/PHPUnit tests and code review</li> <li>• Deploying releases through the various environments</li> <li>• CI/CD through GitHub and Jenkins</li> <li>• DevOps through the GCP, Kubernetes, and Docker</li> <li>• Database and entity management through Doctrine ORM</li> </ul>
<b>Aberystwyth University</b> 2017–2021	<b>University Tutor</b> Tutored Computer Science university students in a variety of different computer science contexts.  <b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Running workshops, lectures, and tuition groups with undergraduate students</li> <li>• Hosting advisory sessions to help students through a wide range of problems</li> <li>• One-to-one teaching</li> <li>• Grading and supplying feedback to assignments and coursework</li> </ul>
<b>Lexis Nexis Risk Solutions</b> May - Dec 2016	<b>PHP Software Engineer</b> 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.  <b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Working in an Agile team delivering user stories through sprints</li> <li>• Peer reviewing code</li> <li>• Developing features involving both front-end and back-end aspects</li> </ul>

## Education

<b>Aberystwyth University</b>	<b>PhD Topological Mapping Swarm Robotics</b> 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.  <b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Developing a simulator for robotic operations</li> <li>• Innovating novel solutions to the multi-agent SLAM problem</li> <li>• Communicating advanced and technical work</li> </ul>
<b>Aberystwyth University</b>	<b>BSc Computer Science</b> During the degree, a wide range of technologies were studied which are still utilised today.  <b>Modules:</b> <ul style="list-style-type: none"> <li>• Web programming</li> <li>• Java, C, and C++ programming paradigms</li> <li>• Software development lifecycle</li> <li>• Human computer interface and human computer interaction</li> <li>• Agile methodologies</li> <li>• Advanced computer graphics</li> <li>• Professional issues in the computing industry</li> </ul>

## Personal Details

- 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.